Remedial Investigation Work Plan (RIWP)

213 Meadow Street
Brooklyn, New York 11237

MTA Facilities Project Site #C224433

April 24, 2026

Prepared for:

Go Quay, LLC
c/o Gotham Organization, Inc.
111 Fifth Avenue, 9th Floor
Brooklyn, New York 10003

Prepared by:

Roux Environmental Engineering and Geology, D.P.C.
209 Shafter Street
Islandia, New York 11749

3084.0003Y101/CV

Environmental Consulting
& Management
+1.800.322.ROUX
rouxinc.com

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Certifications

I, Jessica L. Taylor, certify that I am currently a qualified environmental professional and a NYS registered Professional Geologist and that this Remedial Investigation Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and DER Green Remediation (DER-31).

Jessica L. Taylor, P.G.	April 24, 2026	
Professional Geologist NY #000320	Date	Signature

1. Introduction

Roux Environmental Engineering and Geology, D.P.C. (Roux), on behalf of GO Quay, LLC (Go Quay), has prepared this Remedial Investigation Work Plan (RIWP) to investigate the 1.29-acre 213 Meadow Street Metropolitan Transportation Authority (MTA) Facilities Project Site located at 213 Meadow Street in the Borough of Brooklyn, New York (Site; Figure 1). Go Quay entered into a Brownfield Cleanup Agreement (BCA), Index No. C224433-10-2025, with the New York State Department of Environmental Conservation (NYSDEC) as a Volunteer on March 22, 2026. As of the time of the BCA, the Site was divided into three tax lots known as Block 2951, Lots 45, 1, and 5 on the New York City (NYC) Tax Map and the BCA only accepted the former Lot 45 into the Brownfields Cleanup Program (BCP). The three tax lots were merged into one lot (Lot 1) as of February 12, 2026, and NYSDEC confirmed via email on March 24, 2026, that they will accept the addition of the two former Lots 1 and 5 into the BCP. At the request of the NYSDEC team a minor BCA Amendment Application was submitted to NYSDEC on April 8, 2026, for the newly consolidated lot, and is still being processed as of the date of this RIWP submission.

The proposed redevelopment of the Site consists of the construction of an approximately 143,000 square foot MTA facility that will house the MTA's mobile wash unit vehicles, materials storage facility, and MTA's emergency response unit. The facility will consist of storage, vehicle parking, and administrative space and will comprise 3 stories with slab on grade construction. The anticipated use is to relocate the current NYC Transit Authority Mobile Wash Unit and Material Control Unit facility located at 40 Quay Street and the NYC Transit Authority Emergency Response Unit from 65 Commercial Street. This project is a public-private partnership between MTA and GO Quay and has been in the planning stages for years.

The purpose of the RI will be to determine the nature and extent of contamination at the Site, characterize environmental media, qualitatively assess the potential exposure of receptors to Site contaminants, and develop any other additional data necessary to support the development of a Remedial Action Work Plan (RAWP).

1.1 RIWP Document Organization

This RIWP contains a background information describing the Site, its history, and results of previous environmental investigations (Section 2); the objectives and scope of the RI (Section 3); Sections 4 and 5 describing the project operations plans (e.g., Quality Assurance/Quality Control, Health and Safety); and the reporting requirements and the proposed project schedule are discussed in Section 6. Figures are provided to illustrate Site conditions and the locations of proposed investigation activities.

1.2 Project Team and Contact Information

A list of names, contact information, qualifications and roles of the principal Roux personnel who will participate in the investigation are included below and in the Quality Assurance Project Plan/Field Sampling Plan (QAPP/FSP) in Appendix B.

Roux Personnel	Title	Contact Information
Jessica Taylor, P.G. Principal Hydrogeologist	Project Principal	(631) 232-2600 jtaylor@rouxinc.com
Levi Curnutte Senior Scientist	Project Manager	(631) 232-2600 Lcurnutte@rouxinc.com
To Be Determined	Field Manager	(631) 232-2600
To Be Determined	Quality Assurance Officer	(631) 232-2600

The name and contact information for the Volunteer is:

Mr. Simeon Maleh
Go Quay, LLC
c/o Gotham Organization, Inc.
111 Fifth Avenue, 9th Floor
Brooklyn, New York 10003

Phone: 212-716-2536

Email: smaleh@gothamorg.com

Contact information for the major subcontractors involved in the investigation (driller, data validator and laboratory) are also included below and in the QAPP/FSP.

Subcontractor	Company Name	Contact Information
Laboratory Analysis	Eurofins Environment Testing Northeast, LLC	(203) 308-0880
Data Usability Summary Report Preparation	Judy Harry of Data Validation Services, North Creek, NY	(518) 251-4429
Drilling	To Be Determined	To Be Determined
NYS Licensed Surveying	Nova Geophysical Services	(347) 261-15277

Eurofins Environment Testing Northeast, LLC, a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP)-certified laboratory, will be used to analyze all samples collected during the RI. Drilling and other subcontracted services have not been selected as part of the preparation of this RIWP. This information will be provided to the NYSDEC prior to the start of field activities.

2. Background

This section provides pertinent background information, including a description of the Site and its setting, the history of the Site, and the results of previous environmental work conducted at the Site.

2.1 Site Description and Setting

A Site location map is included as Figure 1 and a Site plan is included as Figure 2.

Property Location	
Property Name:	213 Meadow Street MTA Facilities Project Site
Property Address:	213 Meadow Street
Property Town, County, State:	Brooklyn, Kings County, New York
Property Tax Identification:	Block 2951; Lots 1, 5, and 45, which are approved for merger into Lot 1 by the City of New York
Property Topographic Quadrangle:	USGS-Brooklyn, New York
Nearest Intersection:	Ten Eyck Street and Varick Street to the northwest, Stewart Avenue and Meadow Street to the southeast, and Varick Avenue and Meadow Street to the southeast.
Site Description:	The Site encompasses an area of 1.29-acres and is paved with concrete and contains a one-story structure located on the eastern portion of the Site. The Site is occupied by Castle Sanitation for truck storage and repairs, a demolition business by Titan Industrial Services and Roma Scaffolding for scaffolding storage.

Property Information	
Property Acreage:	1.29 acres
Property Shape:	L-shaped
Improvements:	Small one-story structure at the southeast corner.

2.1.1 Utilities

The Site is connected to a public water and sanitary sewer system which is serviced by New York City Department of Environmental Protection.

2.1.2 Topography

The grade of the Site is generally flat. The average elevation of the Site is approximately 15 feet above mean sea level (ft amsl) as shown in the USGS 7.5 Minute Series (Figure 1 of the Langan Phase I ESA).

2.1.3 Wetland Areas and Surface Water Bodies

The nearest surface water bodies are Newton Creek and English Kills, a tributary of Newton Creek, to the north and west. English Kills is recognized as a mapped tidal wetland located approximately 0.13 miles west of the Site. The Site is also partially in a flood zone. The northwest corner of the Site is located in a Zone X flood area. A Zone X area designation includes areas with a 0.2% annual chance flood, areas with a 1% annual chance of flood with average depths of less than one foot or with drainage areas less than one square mile, and areas protected by levees from a 1% annual chance flood.

2.1.4 Soil and Lithology

Based on the Langan Phase II EIR, the Site stratigraphy in the western portions of the Site consists of a 1- to 2-foot-thick layer of concrete underlain by an approximate 4- to 6-foot layer of historic fill followed by native sand and silty sand. The central portion of the Site consists of up to a 2-foot-thick layer of concrete underlain by an approximately 6-foot layer of historic fill underlain by native sand and silty sand. The eastern portion of the Site consists of a 2-foot-thick layer of concrete, underlain by an 8- to 15-foot layer of fill followed by native sand, silt, and clay. The top of a peat layer was also encountered between 18.5-19.5 feet below land surface (ft bls) in some borings. All borings completed as part of the Langan Phase II EIR were advanced to approximately 20 ft bls and bedrock was not encountered.

2.1.5 Groundwater

As reported in the Langan Phase II EIR, groundwater was encountered between 9.5 and 11.5 ft bls in monitoring wells. Based on Site/area topography, groundwater flow is anticipated to be to the west, toward English Kills, a tributary of Newton Creek.

2.1.6 Neighboring Properties and Zoning

Historical and current uses of surrounding properties include a private garage with truck repair, paint room, gasoline tank, wire product manufacturing, an oil/fuel company, metals stamping and metal products manufacturing between 1951 and 2007; a vinyl plastics company, and a chemical products company with manufacturing facilities between 1965 and 2007; gasoline storage between 1933 through 1988, auto wrecking between 1965 and 1977; automobile repair facility between 1933 and 1987; and filling stations and an oil terminal between 1933 and 1968. Numerous adjoining facilities were identified in environmental databases, including one listing of small quantity generators, several non-generator/non-RCRA waste facilities, multiple sites with manifesting of waste, one facility with an underground storage tank (UST) and two with above ground storage tanks (ASTs).

The Site is located in a Manufacturing District (M1-3) within the North Brooklyn Industrial Business Zone (IBZ); therefore, the commercial project is consistent with the current zoning and is “as of right.” The area surrounding the Site is similar with mixed commercial and industrial zoning.

2.2 Site History

According to the previous environmental investigations, the Site was operated for oil truck parking, junk yards, and auto wrecking on the western portion of the Site as of 1965. In the early 1980s, the east side of former Lot 45 was used for truck parking, a repair shop, and storage and the west side of former Lot 45 was previously a temporary C&D transfer station from approximately 1985 until it was shut down around 1995. The current use of the Site is for truck storage and repairs and the Site’s property listings in the City Directory Abstract consist of auto wrecking and demolition and salvage companies. Former Lot 1 was an

auto wrecking junk yard and is now used for scaffolding storage. Former Lot 5 was previously known to be vacant and is now used for scaffolding storage.

2.3 Environmental Conditions/Results of Previous Environmental Investigations

This section provides an overview of previous environmental-related activities completed at the Site, based on the following environmental reports (provided in Appendix A) available for review:

- Phase I ESA, prepared by Langan on behalf of GO Quay, LLC dated March 11, 2022;
- Phase II EIR, prepared by Langan on behalf of GO Quay, LLC dated March 11, 2022; and
- Addendum to March 11, 2022 Phase I ESA by Langan on behalf of GO Quay, LLC dated October 26, 2023.

A summary of the findings from assessments of the Site is provided below.

2.3.1 Phase I ESA, prepared by Langan on behalf of GO Quay, LLC, dated March 11, 2022

The Phase I ESA was prepared for the entire Site, which at that time was subdivided into Block 2951, Lots 1, 5 and 45. The following Recognized Environmental Condition (REC) was identified in association with the Site:

- Presence of Contaminated Historic Fill: Findings from the Langan 2022 Phase II EIR, identified contaminated fill with elevated concentrations of metals and semi-volatile organic compounds (SVOCs) above NYSDEC Commercial Soil Cleanup Objective (CSCOs), Industrial SCOs (ISCOs), and Protection of Groundwater Soil Cleanup Objectives (PGWSCOs) at the Site representing a REC.

The following Historical Recognized Environmental Condition (HREC) was identified in association with the Site:

- NYSDEC Spill Case #9315532: The Site was identified in the NY Spills database for a release reported on March 31, 1994, and assigned NYSDEC Spill Number 9315532. A tank truck spilled approximately 5-gallons of diesel fuel onto the concrete while cleanup was in progress. The case was administratively closed on March 31, 1994.

The following *de minimis* condition was identified in association with the Site:

- Motor Oil Release: Evidence of a small, isolated oil release was identified on the concrete in the southeastern lot of the Site during Langan's Phase I ESA Site reconnaissance. Staining was observed and Speedy Dry had been placed on the stained concrete. No cracks or gaps in the concrete were observed.

No Controlled RECs (CRECs) were identified in connection with the Site.

The following Business Environmental Risks (BERs) were identified in connection with the Site:

- Current and Historical Site Operations: Historical uses of concern at the Site included oil truck parking, auto wrecking, and a junk yard between 1960 and 2007 and as a solid waste transfer facility for yard waste and residential, institutional, and commercial waste from at least 2004 through 2012. Current Site use includes truck storage and repairs including three in-service 275-gallon ASTs and one out-of-service AST.

- Potential Presence of Undocumented USTs: No evidence of USTs were observed during the Site inspection or noted in the ESA, however, historical Site use included operation for automotive-related purposes which may have utilized USTs.

2.3.2 Phase II Environmental Investigation Report, prepared by Langan on behalf of GO Quay, LLC, dated March 11, 2022

Langan completed seven soil borings to 20 ft bls, four monitoring wells, and collected four soil vapor samples. The conclusions of the Phase II EIR were:

- Historic fill was observed extending to the terminal depth of 6 ft bls on the western and central portions of the Site and 15 ft bls to the eastern side of the Site.
- Soil samples including one duplicate were collected from seven borings at the Site; four soil samples were collected from 2-4 ft bls, three samples collected from 4-6 ft bls, one collected from 4-7 ft bls, two collected from 8-10 ft bls, and one collected from 15-17 ft bls. Elevated photoionization detector (PID) readings were identified at each of the soil borings with exception to LSB-3. No evidence of staining was identified during sample collection.
- Analytical data indicated soils at the Site are impacted with SVOCs and metals above CSCOs), ISCOs, and PGWSCOs at intervals ranging from 2 to 10 ft bls. Perfluorooctanesulfonic acid (PFOS) was detected in exceedance of the proposed regulatory PGWSCO.
- SVOCs and metals were identified above NYSDEC Ambient Water Quality Standards and Guidance Value (SGVs) in multiple monitoring wells. Analytical results from all four monitoring wells identified per- and polyfluoroalkyl substances (PFAS) in exceedance of the screening values provided in the Sampling, Analysis, and Assessment of PFAS under NYSDEC's Part 375 Remedial Programs (June 2021; has since been updated from the time the Phase II EIR was issued).
- No exceedances in soil or groundwater were detected for polychlorinated biphenyl (PCBs), pesticides, and herbicides.
- Acetone, a volatile organic compound (VOC) and a common laboratory artifact, was identified in soil above the PGWSCO in the 15-17 ft bls interval of LSB-5. Acetone was also detected in groundwater above the NYSDEC SGVs in LMW-1.
- Concentrations of VOCs in soil vapor were detected above laboratory reporting limits at sampling locations and included chlorinated VOCs (CVOCs). Comparison to the applicable NYSDOH Guidance Values did not identify detections that would require mitigation.

Previous sample data from the Langan Phase II EIR is shown on Figure 3, Figure 4, and Figure 5. The soil exceedances depicted on Figure 3 have been updated to reflect the NYCRR Part 375 SCOs effective December 31, 2025.

2.3.3 Addendum to 11 March 2022 Phase I ESA, prepared by Langan on behalf of GO Quay, LLC, dated October 26, 2023

Following submission of the March 11, 2022, Phase I ESA prepared by Langan, additional records were received related to the Site. A copy of the completed User Questionnaire and an Acknowledgement of Notice of Intent for Coverage under State Pollutant Discharge Elimination System (SPDES) Multi-Sector General Permit for Stormwater Discharge Associated with Industrial Activities was received by one of the property owners. The additional records provided by the owner did not change the conclusions of the Langan Phase I ESA.

2.3.4 Identification of Areas of Concern (AOCs) Based on Previous Investigations / Remediation

Based on the findings of the prior investigations, the following AOCs that will be further investigated as part of this RIWP include:

- Presence of contaminated historic fill; and
- Current and historical operations.

3. Preliminary Conceptual Site Model, RI Work Plan Objectives, Scope, and Rationale

Roux, on behalf of the Volunteer, has developed a RI scope of work that satisfies NYSDEC BCP requirements. Data collected during the RI will determine the basis for remedial actions for the Site.

Standards, Criteria, and Guidance (SCGs) for soil at BCP sites are the numerical SCOs presented in Part 375. The SCOs are categorized into unrestricted use criteria and restricted use (residential, restricted-residential, commercial, or industrial) criteria, as well as criteria for protection of groundwater and ecological resources. The applicability of each category of SCOs is determined based upon the current and reasonably anticipated future use of the Site, as well as cleanup tracks being evaluated. The anticipated redevelopment of the Site will include operations related to warehousing and storage and NYSDEC has determined that ISCOs are appropriate for the Site.

The SCGs for groundwater are the NYSDEC Ambient Water-Quality Standards and Guidance Values (AWQSGV)s for Class G groundwater – Technical & Operational Guidance Series (TOGS) 1.1.1 (groundwater is not and will not be used for drinking water, as the Site will be connected to the public water supply and groundwater use as potable water is restricted within New York City).

SCGs for evaluating Soil Vapor Intrusion (SVI) are the NYSDOH's Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, Revised February 2024 (NYSDOH SVI Guidance). Potential soil vapor impacts identified in accordance with the NYSDOH SVI Guidance will be considered.

3.1 Preliminary Conceptual Site Model

This section describes the Preliminary Conceptual Site Model (PCSM) developed for the Site. The PCSM is a tool used to evaluate and identify potential sources of contamination, target analytes, potential entry and mechanisms for transport in the subsurface environment and into the Site structures, potential exposure routes, and the environmental media and locations most likely to have been impacted by the target analytes.

3.1.1 Potential Sources, Target Analytes, Transport Pathways and Receptors

Based on previous investigations and historical documentation including Sanborn Fire Insurance Maps and the City Directory, the Site was operated for oil truck parking, junk yards, and auto wrecking on the western portion of the Site as of 1965. Four one-story storage buildings were identified from 1965 through 1977. In 1977, only one storage building remained until it was shown as removed in 1986 and remained undeveloped. The Site was used for junk and auto wrecking and oil truck parking through 1986 with the presence of temporary storage buildings. In 2001, portions of the Site were depicted as a lumber yard. City Directory listings for the Site consisted of auto wrecking and demolition and salvage companies. The demolition company that occupied the Site was identified in the Solid Waste Facilities/Landfill Sites database as an inactive C&D processing facility and classified as a landfill facility between 2004 and 2012.

During the 2022 reconnaissance, the Site was observed to be occupied by a demolition company which also leased portions of the Site for truck parking, storage, and scaffolding storage. A shed was identified for truck repair on former Lot 45. Multiple ASTs were present on Lot 45 and reported to contain waste oil,

motor oil and hydraulic oil. There were fourteen 55-gallon drums identified on secondary containment containing degreasers, motor oil, and hydraulic oil. In the area of the truck repair, stained concrete was identified along with the presence of several suspected drains and open-hold sumps identified under metal plates with purpose unconfirmed. The EDR database report identified a release on March 31, 1994 (NYSDEC Spill No. 9315532) associated with a release of 5-gallons of diesel from a tank truck. Cleanup was in progress at the time the spill was reported and the spill was administratively closed on March 31, 1994.

The primary environmental AOCs and potential sources of contamination associated with the Site are the historic fill and current and historical operations at the Site. Langan's Phase II EIR indicated soils at the Site are impacted with one VOC above its UUSCO and PGWSCO. SVOCs and metals were detected above Unrestricted Use SCOs (UUSCOs), PGWSCOs, and ISCOs, and PFAS above UUSCOs and PGWSCOs. PCBs were all below UUSCOs, PGWSCOs, and ISCOs and pesticides were not detected. Groundwater samples were collected from four monitoring wells. SVOCs and metals were in groundwater above AWQSGVs. PFAS were detected above NYSDEC screening values as reported herein. The concentrations of SVOCs and metals are typical of urban sites where fill material was placed in the area and are not indicative of any other potential source or historical activity. Soil vapor samples were collected from four locations at the Site. Concentrations of VOCs in soil vapor were detected above laboratory reporting limits, however, not at concentrations that would warrant mitigation.

Based on the target analytes present and the media in which these contaminants were identified, the following potential transport mechanisms were identified for the Site:

- Target analytes may potentially remain sorbed to soil (soil impacts);
- Leaching of target analytes from soil to groundwater (groundwater impacts);
- Transport of target analytes in the dissolved-state through groundwater flow; and
- Volatilization of target analytes from soil and groundwater into soil pore space and potentially into surface structures (vapor intrusion).

The following potential exposure routes for target analytes have been identified for the Site:

- Inhalation of VOCs/CVOCs from soil vapor;
- Dermal contact and incidental ingestion of soil; and
- Dermal contact with groundwater is also considered minimal risk as groundwater is not used for drinking water or irrigation purposes.

There are no land uses within close proximity of the Site that are sensitive human receptors. Section 3.5 discusses ecological receptors.

3.2 Objectives

The objective of the RI is to further assess the nature and extent of contamination associated with the following AOCs:

- Presence of contaminated historic fill; and
- Current and historical operations.

The RI will evaluate soil, groundwater, and soil vapor impacts on-Site and at the property boundary to provide the basis for refining the PCSM and remedial action selection and to determine the general potential for off-Site impacts. Environmental data collected during the RI will be used to qualitatively assess the potential exposure of receptors to Site contaminants and develop the information necessary to support the development of a RAWP.

3.3 RI Scope

The scope of the RI will include the collection of sufficient Site investigation data so that, together with the historical data, the entire Site will be sufficiently characterized to support the development of the RAWP.

To accomplish this, the scope of work for the RI will include the following:

- The performance of Site reconnaissance to confirm proposed sampling locations;
- The advancement of soil borings, collection of soil samples, installation of permanent groundwater monitoring wells, collection of groundwater samples from new monitoring wells, installation of soil vapor points, and sampling of new soil vapor points;
- The collection of soil, groundwater, and soil vapor data sufficient to define the nature and extent of impacted media and current Site conditions and to evaluate potential off-Site groundwater and/or soil vapor migration;
- The collection of a synoptic round of groundwater level measurements and the collection of additional land survey data as needed for developing a groundwater elevation contour map; and
- The performance of a qualitative human health exposure assessment (QHHEA) to identify existing and potential exposure pathways and evaluate contaminant fate and transport.

All investigation activity will be conducted in accordance with the applicable requirements of the NYSDEC DER-10.

Soil samples from all soil borings and all groundwater samples collected from the investigation described in detail below for soil and groundwater, respectively, will be analyzed for the target compound list (TCL)/Part 375 plus 30/target analyte list (TAL) (TCL + 30/TAL) list of parameters including:

- TCL/Part 375 VOC + 10 Tentatively identified compounds (TICs);
- TCL/Part 375 Base neutral acids (BNA)/SVOCs + 20 TICs;
- TCL/Part 375 Pesticides;
- TCL/Part 375 Herbicides;
- TCL/Part 375 PCBs;
- TAL/Part 375 Metals (including hexavalent chromium);
- Total Cyanide; and
- Emerging Contaminants (ECs) list includes 1,4-Dioxane and all Per- and Polyfluoroalkyl Substances (PFAS) compounds listed in the NYSDEC April 2023 “Sampling, Analysis, and Assessment of PFAS.” PFAS in soil and groundwater will be analyzed by United States Environmental Protection Agency (USEPA) Method 1633A and 1,4-Dioxane in groundwater will be analyzed by USEPA Method 8270D SIM and 1,4-Dioxane in soil will be analyzed by USEPA Method 8270D.

Soil samples will also be collected for geologic logging in accordance with the Unified Soils Classification System (USCS) and for organoleptic inspection (for evidence of contamination including staining and/or odors) as well as using a PID with a 10.6 electron volt (eV) lamp.

All soil vapor samples will be analyzed for VOCs using USEPA Method TO-15.

All data will be produced in accordance with NYSDEC Analytical Services Protocol (ASP) Category B deliverables and will be reviewed and validated by Data Validation Services, Inc. (DVS), an independent data validator. Data Validation Services will prepare a Data Usability Summary Report (DUSR) before data is incorporated into the RI Report (RIR) for the Site. All data will be submitted to NYSDEC in electronic format, in accordance with DER-10, Section 1.15.

The overall scope of each component of the RI is discussed in the following subsections. Detailed field sampling procedures are provided in the Quality Assurance Project Plan/Field Sampling Plan (QAPP/FSP; Appendix B of this RIWP). The proposed sampling locations are shown in Figure 6 of this RIWP for soil, groundwater, and soil vapor. Additional information, including intervals to be sampled and sample rationale, is provided in embedded Tables 1, 2 and 3 for soil, groundwater, and soil vapor, respectively.

3.3.1 Site Reconnaissance

An inspection of the existing Site conditions will be conducted to confirm conditions described by the previous investigations and determine final locations of soil borings and monitoring wells based on actual field conditions.

3.3.2 Soil Investigation

To evaluate soil conditions on Site and determine extent of contamination both vertically and horizontally across the Site, twelve borings (RX-01 through RX-12) will be advanced to 20 ft bls at the locations shown in Figure 6. Four of the proposed soil borings (RX-01 through RX-04) will be advanced at the locations shown in Figure 6 for the installation of co-located groundwater monitoring wells as described below. It is anticipated groundwater will be encountered approximately 9.5 to 11.5 ft bls. Four of the proposed soil borings (RX-06 through RX-09) will be advanced at the locations shown in Figure 6 for the installation of co-located soil vapor points as described below.

At each borehole location utility clearances will be performed prior to advancement of soil borings using hand tools and/or vacuum excavation to a minimum of five ft bls to confirm that no subsurface utilities are present. Should a utility or other feature be observed during pre-clearance activities, the sampling location will be relocated. Soil samples will be collected by utilizing a Geoprobe direct-push drill rig. Soil samples will be collected continuously from grade to the terminal depth of each soil boring while continuously inspecting soil for evidence of contamination and logging soil lithology. All soil borings will be surveyed for horizontal coordinates and land surface elevation.

At each soil boring, the proposed sample depth intervals are 2-4 ft bls (or shallowest available interval beneath concrete layer) and 8-10 ft bls (or the 2 ft interval located above observed groundwater level). Each soil sample will be analyzed for TCL + 30/TAL and ECs list of analytes. If odor/ visual evidence of contamination or elevated PID readings are noted, an additional sample will be collected from the interval that exhibits the highest contamination.

3.3.3 Groundwater Investigation

To evaluate groundwater quality conditions across the Site, five permanent monitoring wells (RX-01 through RX-05) will be installed in converted soil boring locations. Roux will collect a groundwater sample from each newly installed monitoring well location, as shown in Figure 6. All monitoring wells will be surveyed for horizontal coordinates, land surface elevation, and measuring point elevation.

Monitoring wells will be constructed of 2-inch inside diameter, Schedule 40 polyvinyl chloride (PVC) casing and 0.020 inch slot, machined screen. Well construction will be as follows:

- Well screens will be 10 ft long, and will be installed with approximately three ft above and seven ft below the water table.
- A sand pack will be placed around the well screen, extending two ft above the top of the screened zone.
- A minimum two-foot thick bentonite pellet seal will be placed above the sand pack. Once the pellets have been allowed to hydrate, cement bentonite grout will be pumped into the remaining annular space from the bottom up.
- The wells will be completed using locking well plugs, and flush mounted, bolt down, watertight, manhole covers cemented into place.

Each monitoring well will be developed to ensure proper hydraulic connection with the aquifer and to reduce/eliminate turbidity of the groundwater. The wells will be developed using a submersible pump, which will be surged periodically until well yield is consistent and has turbidity below 50 nephelometric turbidity units (NTUs), if possible. Detailed procedures regarding well development can be found in the QAPP/FSP (Appendix B).

Prior to sampling, the depth to groundwater in each monitoring well will be measured using an electronic water level meter. At least one week following redevelopment, all on-Site wells will then be sampled consistent with USEPA low-flow sampling requirements, and one round of groundwater samples will be collected in accordance with the QAPP/FSP. Field parameters (e.g., pH, dissolved oxygen, oxidation-reduction potential [ORP], etc.) will also be collected using a water quality meter during purging and prior to sampling. Each groundwater sample will be analyzed for TCL + 30/TAL and ECs list of analytes.

3.3.4 Soil Vapor Investigation

To evaluate soil vapor and the potential for SVI into the proposed building, Roux will install four soil vapor points (SV-06 through SV-09) in converted soil boring locations using a Geoprobe® direct-push rig to be installed approximately two ft above where groundwater is observed in each boring (estimated to be between 7.5-9.5 ft bls). One soil vapor sample will be collected from each point. New Teflon®-lined tubing will be attached to an expendable soil vapor sampling point with a 6-inch stainless steel screen. The soil vapor points will be backfilled with #2 Morie sand to approximately one foot above the screen. The remainder of the borehole will be backfilled with a concrete/bentonite slurry to grade.

In accordance with the NYSDOH Guidance for Evaluating SVI, the integrity of each soil vapor sampling point seal will be checked following installation to verify that the soil vapor sample will not be compromised by inadvertent introduction of ambient air into the sample. The soil vapor samples will be collected using pre-cleaned (batch certified) 6-liter summa canisters with regulators calibrated to collect samples over a 2-hour period and analyzed using USEPA Method TO-15 for VOCs. The proposed soil vapor sampling

locations are shown in Figure 6. Additional details regarding soil vapor sampling methods are provided in the QAPP/FSP (Appendix B).

3.3.5 Management of Investigating Derived Waste

Management of investigation derived waste will be completed in accordance with NYSDEC DER-10, Section 3.3 (e).

All waste materials (drill cuttings, decontamination water, etc.) generated during the RI will be consolidated, and stored in appropriate labeled bulk containers (drums), and temporarily staged at an investigation derived waste storage area onsite. Roux will then coordinate waste characterization and disposal by appropriate means.

3.4 Green and Sustainable Remediation (GSR)

Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and Site management of the remedy using best practives described in DER-31: Green Remediation. For each phase of the remediation, starting from the RI through RAWP preparation, the environmental footprint analysis tool, SiteWise™, will be utilized. During the RI phase specifically, green remediation principles and techniques will be implemented to the extent feasible which may include but is not limited to carpooling of field staff and drilling staff, limiting the number of equipment and laboratory drop-offs, utilizing vendors with operation centers local to the Site, limiting water and energy usage, keeping equipment on-Site instead of mobilizing and demobilizing daily, and turning off equipment when not in use.

The Site is entering the program at the investigation Stage; therefore, a Climate Change Screening or Vulnerability Assessment is not applicable or required at this time. The remedial design will include a climate change vulnerability assessment to evaluate the impact of climate change on the project site and the proposed remedy. Potential vulnerabilities associated with extreme weather events (e.g., hurricanes, lightning, heat stress and drought), flooding, and sea level rise will be identified, and the measures to minimize the impact of climate change on potential identified vulnerabilities will be implemented. The reduce the flood potential, ground improvements will be made to raise the first floor and associated utilities above the design flood elevation. The proposed redevelopment and remediation of the Site will not have an adverse impact on any existing natural resources. The proposed redevelopment is not expected to generate more than 50 tons of solid waste per week and therefore will not have a significant adverse impact to the NYC solid waste management systems. On-Site reuse of NYSDEC-approved material will be prioritized during remediation to minimize waste generation and greenhouse gas emissions due to truck traffic.

3.5 Fish and Wildlife Resources Impact Analysis (FWRIA)

A FWRIA Part 1: Resource Characterization will be performed as part of the RIR to determine whether contamination at the Site poses actual or potential ecological risk to fish, wildlife, or sensitive habitats. As stated above, the Site is located in proximity to the water body English Kills, which is a tributary of Newtown Creek.

4. Quality Assurance/ Quality Control (QA/QC)

The goal of the QA/QC aspect of the RI is to ensure that suitable and verifiable data results from sampling and analyses are performed. To accomplish this, a QAPP/FSP has been prepared and is provided as Appendix B.

5. Health and Safety

A site-specific Health and Safety Plan (HASP) has been prepared for the Site and is provided in Appendix C. A site-specific Community Air Monitoring Plan (CAMP) has been prepared for the Site and is provided as Appendix C within the HASP document.

6. Reporting and Schedule

The following will be provided to the NYSDEC during the course of the RI work.

Daily Progress Reports

Daily progress report submittals will be provided to the NYSDEC during RI field activities and will include the following.

- Discovery of any previously unknown contaminated media during RI activities will be promptly communicated to NYSDEC's project manager;
- A Site map will be provided to identify locations discussed in progress reports provided to NYSDEC;
- An update of progress made during the reporting day;
- Locations of work keyed to a map of the Site;
- A summary of CAMP results, including any potential exceedances;
- An explanation of notable Site conditions; and
- Photos of the work.

Daily reports are not intended to be the mode of communication for notification to the NYSDEC of emergencies (accident, spill), requests for changes to the RIWP or other sensitive or time critical information. However, such conditions must also be included in the daily reports. Emergency conditions and changes to the RIWP will be addressed directly to NYSDEC Project Manager via personal communication.

Monthly Reports

Monthly reports will be submitted to NYSDEC and NYSDOH Project Managers by the 10th of the month following the end of monthly reporting period. Monthly reports will commence upon approval of the RIWP and will include:

- Activities relative to the Site during the previous reporting period and those anticipated for the next reporting period;
- Description of approved activity modifications, including changes of work scope and/or schedule;
- Sampling results received following internal data review and validation, as applicable; and
- An update of the remedial schedule including the percentage of project completion, unresolved delays encountered or anticipated that may affect the future schedule, and efforts made to mitigate such delays.

Remedial Investigation Report

A RIR will be prepared for the Site, which will summarize the results and findings of the investigations on the BCP Site. The RIR will be prepared in accordance with the NYSDEC requirements for the BCP and will meet the technical requirements of DER-10.

Schedule

The following schedule outlines the major milestones for the Site:

Timeframe	Description
June 2025	Submit BCP Application
March 2026	Finalize and Execute Brownfield Cleanup Agreement, Submit Citizen Participation Plan
May 2026	Finalize Remedial Investigation Work Plan
June-July 2026	Remedial Investigation Implementation
August 2026	Submit Remedial Investigation Report
October 2026	Submit Remedial Action Work Plan
January 2027	Remedial Action Work Plan approved, and Decision Document Issued
February – March 2027	Begin construction and remedial action
March – July 2027	Remedial Action and construction
June 2027	Submit Environmental Easement
August 2027	Submit Draft Site Management Plan
October 2027	Submit Draft Final Engineering Report and Approvable SMP
November 2027	Submit Approvable Final Engineering Report and Record Easement
December 2027	Receive Certificate of Completion

Respectfully submitted,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.

Levi Curnutte
Senior Scientist

Jessica L. Taylor, P.G.
Principal Hydrogeologist

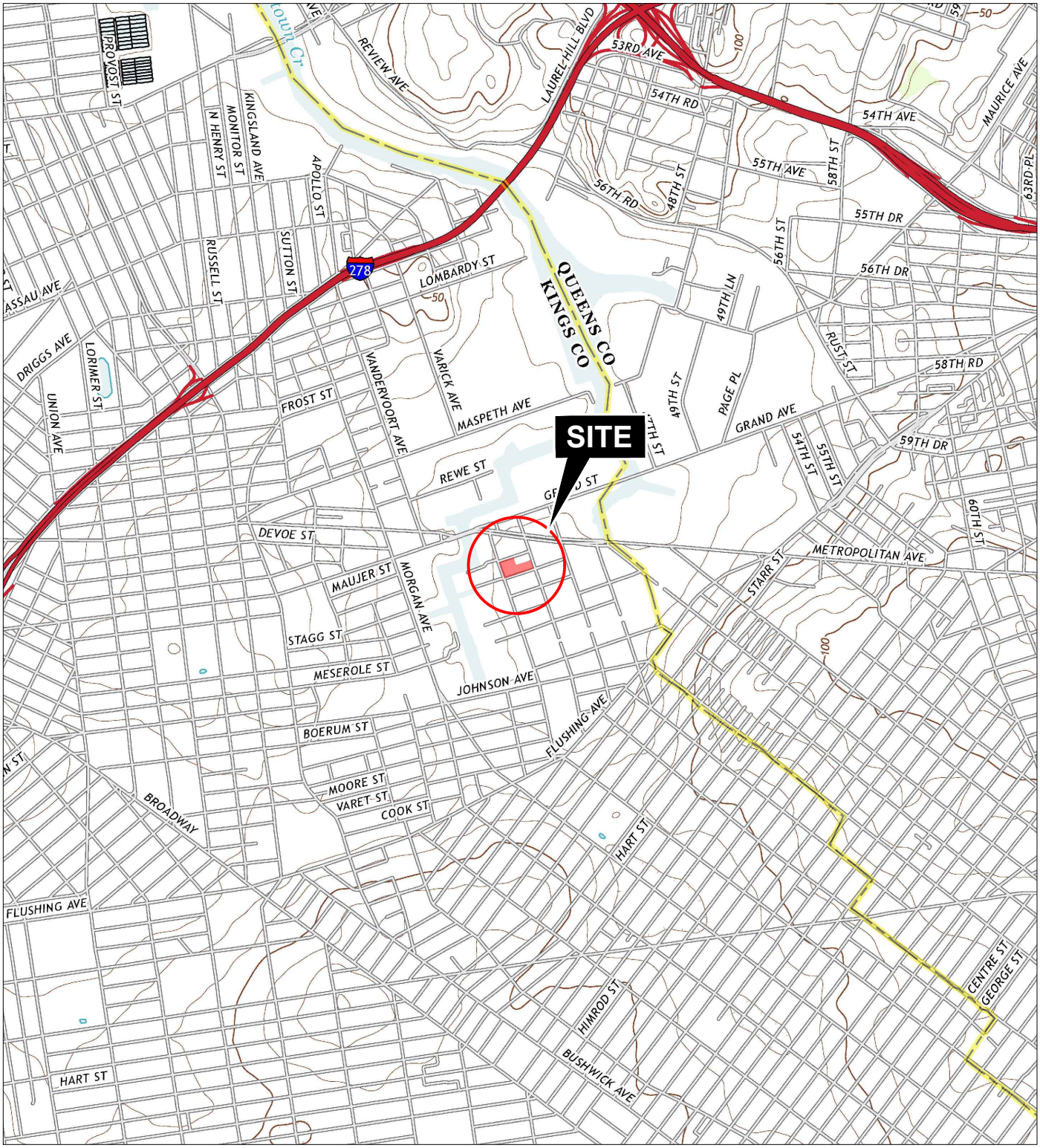
TABLES

(Embedded in Text)

1. Proposed Soil Sample Locations, Analyses and Rationale
2. Proposed Groundwater Sample Locations, Analyses and Rationale
3. Proposed Soil Vapor Sample Locations, Analyses and Rationale

FIGURES

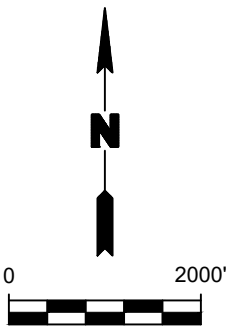
1. Site Location Map
2. Site Plan
3. Soil Sample Results
4. Groundwater Sample Results
5. Soil Vapor Results
6. Proposed Sample Locations



QUADRANGLE LOCATION



SOURCE:
USGS, 2013, Brooklyn, NY
7.5 Minute Topographic Quadrangle



Title:

SITE LOCATION MAP

BCP SITE NO. C224422
213 MEADOW STREET, BROOKLYN, NEW YORK

Prepared for:

GO QUAY, LLC

ROUX

Compiled by: T.B.	Date: 4/16/2026	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	1
Project Mgr: L.C.	Project: 3084.0003Y000	
File: 3084.0003Y1001.02.DWG		

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LEGEND

SITE BOUNDARY

N

40’ 0 40’

Title:

SITE PLAN

BCP SITE NO. C224422
213 MEADOW STREET, BROOKLYN, NEW YORK

Prepared for:

GO QUAY, LLC

ROUX

Compiled by: T.B.	Date: 4/13/2026	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	2
Project Mgr: L.C.	Project: 3084.0003Y000	
File: 3084.0003Y1001.01.DWG		

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LSB-1	2/4/2022	2/4/2022
Depth (ft bls)	2-4	4-6
Metals		
Arsenic	**41.8**	ND
Barium	**452**	NE
Copper	**445**	NE
Lead	**1,420**	NE

LSB-3	2/3/2022	2/3/2022	2/3/2022
Depth (ft bls)	2-4	4-6	8-10
VOCs			
Acetone	**0.031**	NA	NA
SVOCs			
Benzo(a)anthracene	NE	NE	**5.09 D**
Benzo(b)fluoranthene	NE	NE	**3.62 D**
Benzo(g,h,i)Perylene	NE	NE	**2.89 D**
Benzo(k)fluoranthene	NE	NE	**3.57 D**
Chrysene	**1.02 D**	NE	**5.43 D**
Dibenz(a,h)anthracene	NE	NE	**0.823 D**
Indeno(1,2,3-cd)pyrene	**0.52 D**	NE	**2.26 D**
Phenanthrene	**NE**	**1.74 D**	**1.4 D**
Metals			
Barium	466 J	NE	NE
Copper	303	NE	NE
Lead	**531**	**88.2**	**114**
Mercury	**0.868**	**1.23**	**0.632**

LSB-2	2/3/2022
Depth (ft bls)	2-4
VOCs	
Acetone	**0.035**
SVOCs	
Benzo(a)anthracene	**10.3 D**
Benzo(a)pyrene	7.76 D
Benzo(b)fluoranthene	**6.54 D**
Benzo(g,h,i)Perylene	**3.94 D**
Benzo(k)fluoranthene	**6.45 D**
Chrysene	**10.4 D**
Dibenz(a,h)anthracene	**1.31 D**
Indeno(1,2,3-cd)pyrene	**3.73 D**
Phenanthrene	**24.7 D**
Metals	
Copper	**137**
Lead	**385**
Mercury	**1.17**
Zinc	**275**



LSB-5	2/4/2022	2/4/2022
Depth (ft bls)	4-7	15-17
VOCs		
Acetone	NA	**0.067**
SVOCs		
Benzo(a)anthracene	**1.61 D**	ND
Benzo(a)pyrene	**1.49 D**	ND
Benzo(b)fluoranthene	**1.25 D**	ND
Benzo(g,h,i)Perylene	**1.19 D**	ND
Benzo(k)fluoranthene	**1.23 D**	ND
Chrysene	**1.48 D**	ND
Indeno(1,2,3-cd)pyrene	**1.45 D**	ND
Phenanthrene	**1.81 D**	ND
Metals		
Barium	**1,140**	NE
Copper	378	NE
Lead	**741**	NE
Mercury	**1.25**	NE
Zinc	**625 B**	NE

LSB-6	2/4/2022
Depth (ft bls)	8-10
VOCs	
Acetone	**0.033**
Metals	
Arsenic	**32.3**
Copper	**200 J**
Lead	**131**

LSB-7	2/4/2022	2/4/2022 DUP
Depth (ft bls)	2-4	2-4
SVOCs		
Benzo(a)anthracene	**11.6 D**	**7.76 D**
Benzo(a)pyrene	9.58 D	8.35 D
Benzo(b)fluoranthene	**7.91 D**	**5.93 D**
Benzo(g,h,i)Perylene	**3.89 D**	**3.72 D**
Benzo(k)fluoranthene	**7.8 D**	**5.92 D**
Chrysene	**11.7 D**	**7.86 D**
Dibenz(a,h)anthracene	**0.79 D**	**1.27 D**
Indeno(1,2,3-cd)pyrene	**4.42 D**	**4.14 D**
Phenanthrene	**23.8 D**	**15.7 D**
Metals		
Copper	NE	**54 J**
Lead	**87.6**	**107**
Mercury	**0.556**	**0.469**

LSB-4	2/3/2022
Depth (ft bls)	4-6
SVOCs	
Benzo(a)anthracene	**3.97 D**
Benzo(a)pyrene	**3.01 D**
Benzo(b)fluoranthene	**2.68 D**
Benzo(g,h,i)Perylene	**3.94 D**
Benzo(k)fluoranthene	**2.65 D**
Chrysene	**3.55 D**
Dibenz(a,h)anthracene	**0.772 D**
Indeno(1,2,3-cd)pyrene	**1.84 D**
Phenanthrene	**24.7 D**
Metals	
Copper	**253**
Lead	**172**
Zinc	**257**
PFAS	
Perfluorooctanesulfonic acid (PFOS)	**0.0107**

LEGEND

SITE BOUNDARY

LSB-1 PREVIOUS SOIL BORING/MONITORING WELL LOCATION

40' 0 40'

Parameter	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Protection of Groundwater SCO	NYSDEC Part 375 Industrial SCO	Units
VOCs				
Acetone	**0.03**	0.03	1000	mg/kg
SVOCs				
Benzo(a)anthracene	**1**	1	37	mg/kg
Benzo(a)pyrene	**1**	22	3.7	mg/kg
Benzo(b)fluoranthene	**1**	2.1	37	mg/kg
Benzo(g,h,i)Perylene	**0.64**	1000	78	mg/kg
Benzo(k)fluoranthene	**0.8**	2	78	mg/kg
Chrysene	**1**	1	78	mg/kg
Dibenz(a,h)anthracene	**0.33**	1000	3.7	mg/kg
Indeno(1,2,3-cd)pyrene	**0.5**	6.6	37	mg/kg
Phenanthrene	**1.1**	1000	1000	mg/kg
Metals				
Arsenic	**13**	16	16	mg/kg
Barium	**410**	820	10000	mg/kg
Cadmium	**2.5**	7.5	4.4	mg/kg
Copper	**50**	1720	10000	mg/kg
Lead	**63**	450	3900	mg/kg
Mercury	**0.18**	0.73	1.1	mg/kg
Zinc	**109**	2480	10000	mg/kg
PFAS				
Perfluorooctanesulfonic acid (PFOS)	**0.00088**	0.001	0.44	mg/kg

mg/kg – MILLIGRAMS PER KILOGRAM
NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SCO – SOIL CLEANUP OBJECTIVE
J – ESTIMATED VALUE
D – DILUTION
B – ANALYTE WAS ALSO DETECTED IN THE ASSOCIATED LABORATORY BLANK
DUP – DUPLICATE SAMPLE
VOCs – VOLATILE ORGANIC COMPOUNDS
SVOCs – SEMIVOLATILE ORGANIC COMPOUNDS
PFAs – PER– AND POLYFLUOROALKYL SUBSTANCES
NE – NO EXCEEDANCE
ND – NO DETECTION
NA – NOT ANALYZED
FT BLS – FEET BELOW LAND SURFACE

Title:

SOIL SAMPLE RESULTS

BCP SITE NO. C224422
213 MEADOW STREET, BROOKLYN, NEW YORK

Prepared for:

GO QUAY, LLC

ROUX

Compiled by: L.C.	Date: 4/17/2026	FIGURE 3
Prepared by: G.M.	Scale: AS SHOWN	
Project Mgr: L.C.	Project: 3084.0003Y000	
File: 3084.0003Y1001.01.DWG		

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LMW-1	2/7/2022	2/7/2022 DUP
VOCs		
Acetone	**127 D**	**135 D**
Tert-Butyl Methyl Ether	NE	**11.4**
SVOCs		
Benzo(a)anthracene	**0.5 J**	**0.7 J**
Benzo(a)pyrene	**0.48 J**	**0.83 J**
Benzo(b)fluoranthene	**0.39 J**	**0.77 J**
Benzo(k)fluoranthene	**0.38 J**	**0.66 J**
Chrysene	**0.59 J**	**0.86 J**
Indeno(1,2,3-cd)pyrene	**0.3 J**	**0.48 J**
Metals		
Iron	**44,900**	**45,200**
Lead	**31.3**	NE
Magnesium	**94,500**	**94,900**
Manganese	**1,030**	**1,060**
Sodium	**412,000**	**406,000**
PFAS		
Perfluorooctanesulfonic acid (PFOS)	**0.0111**	**0.00973**
Perfluorooctanoic acid (PFOA)	**0.0759**	**0.0819**

LMW-2	2/7/2022
SVOCs	
1,4-Dioxane (P-Dioxane)	**1.92**
Metals	
Iron	**4,910**
Magnesium	**52,000**
Sodium	**80,000**
PFAS	
Perfluorooctanesulfonic acid (PFOS)	**0.114**
Perfluorooctanoic acid (PFOA)	**0.135**

LMW-3	2/8/2022
Metals	
Iron	**14,300**
Lead	**57.2**
Magnesium	**42,500**
Manganese	**774**
Sodium	**53,200**
PFAS	
Perfluorooctanesulfonic acid (PFOS)	**0.115**
Perfluorooctanoic acid (PFOA)	**0.0608**

LMW-4	2/8/2022
SVOCs	
1,4-Dioxane (P-Dioxane)	**1.18**
Benzo(a)anthracene	**0.0778**
Benzo(a)pyrene	**0.0778**
Benzo(b)fluoranthene	**0.0667**
Benzo(k)fluoranthene	**0.0667**
Chrysene	**0.0778**
Metals	
Iron	**4,050**
Lead	**92.5**
Magnesium	**64,200**
Sodium	**63,200**
PFAS	
Perfluorooctanesulfonic acid (PFOS)	**0.0794**
Perfluorooctanoic acid (PFOA)	**0.0948**

LEGEND

SITE BOUNDARY

LSB–2/LMW–1 PREVIOUS SOIL BORING/MONITORING WELL LOCATION

40’ 0 40’

Parameter	NYSDEC AWQSGV	Units
VOCs		
Acetone	**50**	µg/L
Tert-Butyl Methyl Ether	**10**	µg/L
SVOCs		
1,4-Dioxane (P-Dioxane)	**1**	µg/L
Benzo(a)anthracene	**0.002**	µg/L
Benzo(a)pyrene	**0**	µg/L
Benzo(b)fluoranthene	**0.002**	µg/L
Benzo(k)fluoranthene	**0.002**	µg/L
Chrysene	**0.002**	µg/L
Indeno(1,2,3-cd)pyrene	**0.002**	µg/L
Metals		
Iron	**300**	µg/L
Lead	**25**	µg/L
Magnesium	**35000**	µg/L
Manganese	**300**	µg/L
Sodium	**20000**	µg/L
PFAS		
Perfluorooctanesulfonic acid (PFOS)	**0.0027**	µg/L
Perfluorooctanoic acid (PFOA)	**0.0067**	µg/L

µg/L – MICROGRAMS PER LITER
NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AWQSGVS – AMBIENT WATER–QUALITY STANDARDS AND GUIDANCE VALUES
D – DILUTION
J – ESTIMATED VALUE
DUP – DUPLICATE SAMPLE
VOCS – VOLATILE ORGANIC COMPOUNDS
SVOCS – SEMIVOLATILE ORGANIC COMPOUNDS
PFAS – PER–AND POLYFLUOROALKYL SUBSTANCES
NE – NO EXCEEDANCES

Title:

GROUNDWATER SAMPLE RESULTS

BCP SITE NO. C224422
213 MEADOW STREET, BROOKLYN, NEW YORK

Prepared for:

GO QUAY, LLC

ROUX

Compiled by: L.C.	Date: 4/17/2026
Prepared by: G.M.	Scale: AS SHOWN
Project Mgr: L.C.	Project: 3084.0003Y000
File: 3084.0003Y1001.01.DWG	

FIGURE 4

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LSV-1	2/8/2022
VOCs	
Acetone	**40 J**
Benzene	**2.12 J**
Carbon Tetrachloride	**0.279 J**
Chloromethane	**1.16 J**
Cyclohexane	**0.508 J**
Dichlorodifluoromethane	**2.19 J**
Ethyl Acetate	**1.17 J**
Isopropanol	**4.03 J**
M,P-Xylene	**1.47 J**
Methyl Ethyl Ketone (2-Butanone)	**1.48 J**
Methyl Methacrylate	**0.726 J**
Methylene Chloride	**4.67 J**
n-Heptane	**0.848 J**
n-Hexane	**1.61 J**
Toluene	**4.29 J**
Trichloroethene (TCE)	**0.397 J**
Trichlorofluoromethane	**1.16 J**

LSV-2	2/8/2022
VOCs	
1,2,4-Trimethylbenzene	**8.31 J**
1,3,5-Trimethylbenzene (Mesitylene)	**4.29 J**
4-Ethyltoluene	**6.44 J**
Acetone	**12.7 J**
Carbon Disulfide	**31.3 J**
Cyclohexane	**468 J**
Ethylbenzene	**6.16 J**
M,P-Xylene	**7.58 J**
Methyl Ethyl Ketone (2-Butanone)	**5.15 J**
n-Hexane	**74.2 J**
o-Xylene (1,2-Dimethylbenzene)	**4.5 J**
Toluene	**5.96 J**



LSV-3	2/8/2022
VOCs	
1,2,4-Trimethylbenzene	**5.06 J**
1,2-Dichlorobenzene	**6.6 J**
1,4-Dichlorobenzene	**28.9 J**
Acetone	**12.7 J**
Benzene	**3.07 J**
Carbon Disulfide	**2.35 J**
Cyclohexane	**244 J**
Ethylbenzene	**9.24 J**
Isopropanol	**12.8 J**
M,P-Xylene	**8.64 J**
Methyl Ethyl Ketone (2-Butanone)	**2.63 J**
Methylene Chloride	**6.2 J**
n-Heptane	**81.3 J**
n-Hexane	**260 J**
o-Xylene (1,2-Dimethylbenzene)	**3.28 J**
Toluene	**8.02 J**

LSV-4	2/8/2022	2/8/2022 DUP
VOCs		
1,1-Dichloroethane	ND	**21.7 J**
1,2,4-Trimethylbenzene	**2.54 J**	ND
Acetone	**33.3 J**	**32.2 J**
Carbon Disulfide	**6.28 J**	**6.51 J**
Cyclohexane	**9.26 J**	**8.49 J**
Dichlorodifluoromethane	**36.8 J**	ND
Ethylbenzene	**3.59 J**	**3.26 J**
Methyl Ethyl Ketone (2-Butanone)	**8.08 J**	**7.75 J**
Methylene Chloride	ND	**4.47 J**
n-Heptane	**400 J**	**372 J**
n-Hexane	**707 J**	**653 J**
Tert-Butyl Methyl Ether	**7.09 J**	ND
Toluene	ND	**2.43 J**

LEGEND

SITE BOUNDARY

LSB–2/LMW–1 PREVIOUS SOIL BORING/MONITORING WELL LOCATION

CONCENTRATIONS IN µg/m³

µg/m³ – MICROGRAMS PER CUBIC METER

VOCS – VOLATILE ORGANIC COMPOUNDS

ND – COMPOUND WAS ANALYZED FOR BUT NOT DETECTED DUP – DUPLICATE

J – ESTIMATED VALUE

40' 0 40'

Title:

SOIL SAMPLE RESULTS

BCP SITE NO. C224422
213 MEADOW STREET, BROOKLYN, NEW YORK

Prepared for:

GO QUAY, LLC

ROUX

Compiled by: L.C.	Date: 4/17/2026	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	5
Project Mgr: L.C.	Project: 3084.0003Y000	
File: 3084.0003Y1001.01.DWG		

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LEGEND

- SITE BOUNDARY
- LSB–1 — PREVIOUS SOIL BORING LOCATION
- LSB–2/LMW–1 — PREVIOUS SOIL BORING/MONITORING WELL LOCATION
- LSV–1 — PREVIOUS SOIL VAPOR POINT LOCATION
- RX–10 — LOCATION OF PROPOSED SOIL BORING
- RW–1 — LOCATION OF PROPOSED SOIL BORING AND GROUNDWATER MONITORING WELL
- RX–6 — LOCATION OF PROPOSED SOIL BORING AND SOIL VAPOR POINT

N

40’ 0 40’

Title:

PROPOSED SAMPLE LOCATIONS

BCP SITE NO. C224422
213 MEADOW STREET, BROOKLYN, NEW YORK

Prepared for:

GO QUAY, LLC

ROUX

Compiled by: T.B.	Date: 4/17/2026	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	6
Project Mgr: L.C.	Project: 3084.0003Y000	
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APPENDICES

A. Previous Environmental Reports
B. Quality Assurance Project Plan/Field Sampling Plan
C. Site Specific Health and Safety Plan
D. Community Air Monitoring Plan

APPENDIX A

Previous Environmental Reports

PHASE I ENVIRONMENTAL SITE ASSESSMENT

for

213 Meadow Street
Brooklyn, New York

Prepared For:

GO Quay, LLC
432 Park Avenue South, 2nd Floor
New York, New York

Prepared By:

Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, New Jersey 07054
NJ Certificate of Authorization No: 24GA27996400

Amanda Forsburg, CHMM
Senior Project Scientist

Steven Ciambruschini, P.G., L.E.P.
Senior Principal / Senior Vice President

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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. on behalf of GO Quay, LLC to identify current or potential environmental concerns and Recognized Environmental Conditions (RECs) at the ±56,200 square foot proposed development site consisting of the property at 213 Meadow Street (Block 2951, Lots 1, 5, and 45) located in Brooklyn, New York ("site" or "subject property"). The ESA included a site inspection, review of historical information, completion of a federal/state/local environmental database search, and interviews with local and state agencies to assess current and past site conditions.

The subject property is zoned M3-1 Heavy Manufacturing District and is used primarily for storage with a small one-story structure located on Lot 45, and is currently occupied by Castle Demolition truck storage and repairs, food truck storage, and scaffolding storage areas. An out-of-service fuel oil aboveground storage tank (AST) and three 275-gallon ASTs containing waste oil, motor oil, and hydraulic oil AST are present in Lot 45. A one-story storage shed is located in Lot 45 also contains approximately 14 55-gallons drum containing degreasers, motor oil, and hydraulic oil staged on secondary containment pallets. The ASTs and drums will require proper closure and removal prior to site redevelopment.

The subject property was operated for oil truck parking, junk yards, and auto wrecking on the western portion of the property from 1965 through 2007 and as a solid waste transfer facility for yard waste and residential, institutional, and commercial waste from at least 2004 through 2012. Historical and current uses of surrounding sites includes a private garage with truck repair, paint room, gasoline tank, wire product manufacturing, an oil/fuel company, metals stamping, and metal products manufacturing between 1951 and 2007, a vinyl plastics company and a chemical products company with manufacturing facilities between 1965 and 2007, gasoline storage between 1933 and 1988, auto wrecking between 1965 and 1977, an automobile repair facility (1933-1987), filling stations (1933-1968), and an oil terminal (1933-1968).

A Phase II Environmental Investigation (EI) conducted by Langan in February 2022 revealed the presence of contaminated historic fill material impacted with heavy metals and semi-volatile organic compounds (SVOCs), some of which exceeded New York State Department of Environmental Conservation (NYSDEC) Commercial Restricted Use Soil Cleanup Objectives (RUSCOs), Industrial RUSCOs, and Protection of Groundwater Soil Cleanup Objectives (SCOs). Groundwater analytical results revealed the presence of elevated concentration of metals and SVOCs, which are consistent with contaminated historic fill

impacts observed in soil. Odors were encountered in some borings and elevated photoionization detector (PID) readings were also present in certain borings as further described below.

Based on information obtained during the visual inspection of the subject property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following recognized environmental conditions (RECs), historic recognized environmental conditions (HRECs), de minimis conditions, and business environmental risks that may impact proposed redevelopment of the site were identified:

Recognized Environmental Conditions

A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. It is the opinion of the environmental professional that the following represent RECs:

Presence of Contaminated Historic Fill

Based on the findings of the 2022 Phase II EI, contaminated fill impacted with elevated concentrations of metals and SVOCs above the NYSDEC Soil Cleanup Objectives is present in the subsurface at the subject property. Odors and elevated PID readings were also detected, suggesting contamination may be present that was not found during the initial Phase II EI or that weathered petroleum contamination and nuisance soil conditions are present. The presence of contaminated historic fill material will require implementation of soil handling and management procedures to address excavation, reuse, handling, and possible offsite disposal of this material during site redevelopment. The presence of contaminated fill represents a REC.

Historical Recognized Environmental Conditions

An HREC is defined as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. It is the opinion of the environmental professional that the following represent HRECs:

Spill Case #9315532

The subject property is identified in the NY Spills database for a release reported to the department on 31 March 1994 and assigned NYSDEC Spill No. 9315532. According to the case narrative provided by EDR, a tank truck spilled approximately 5-gallons of diesel onto

the concrete and clean up was in progress at the time the spill was reported. No additional information was provided and the spill was administratively closed on 31 March 1994. It is of the opinion of the environmental professional that the closed spill represents an HREC.

De Minimis Conditions

A de minimis condition is defined as a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. It is the opinion of the environmental professional that the following represent de minimis conditions:

Motor Oil Release

Evidence of a release of oil limited to small, isolated areas on the concrete in the southeastern lot of the subject property was observed during Langan's ESA site inspection. Staining was observed on the concrete and speedy dry had been placed on the stained concrete. No gaps or cracks were observed. There was no evidence of a substantial release that would impact the subsurface of the subject property.

Business Environmental Risks

A BER is defined as a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of BER issues may involve addressing one or more non-scope considerations. It is the opinion of the environmental professional that the following represent business environmental risks:

Current and Historical Site Operations

Historical uses of concern at the subject property included oil truck parking, auto wrecking, and a junk yard between 1960 and 2007 and as a solid waste transfer facility for yard waste and residential, institutional, and commercial waste from at least 2004 through 2012. Current site use includes truck storage and repairs including three in-service 275-gallon ASTs and one out-of-service AST.

Langan completed a Phase II EI in February 2022 to determine if current and historical site operations have impacted subsurface conditions. Soil analytical results revealed the presence of contaminated fill material (discussed above). The potential exists that impacts resulting from these uses may be present at the subject property but were not found during the initial Phase II EI. However, odors were observed at all except one boring. Elevated PID readings were detected between 4.8 parts-per-million (ppm) and 171 ppm at two borings at 8 and 17 feet below

ground surface (bgs) suggesting contamination may be present that was not found during the initial Phase II EI or that weathered petroleum contamination is present and nuisance soil conditions are present. Based on these findings, it is the opinion of the environmental professional that the potential for subsurface impacts as a result of current and historical site use at the subject property represents a business environmental risk.

Potential Presence of Undocumented Underground Storage Tanks

While no evidence of USTs was observed during the site inspection or noted during this ESA, the site has historically been operated for automotive-related purposes. Due to this historical use of the site, it is the opinion of the environmental professional that the potential presence of waste oil or motor oil USTs beneath the lots or adjacent sidewalks represents a business environmental risk. During any proposed site redevelopment, a contingency plan to properly remove and dispose of any USTs that may be encountered in accordance with state and local regulations should be employed. The geophysical utility clearance completed on 3 February 2022 as part of the Phase II EI did detect some small unidentified buried objects in the vicinity of boring LSB-3, LSB-4, and LSB-7 as described in that report.

1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) has completed a Phase I Environmental Site Assessment (ESA) of a ±56,200 square foot site located at 213 Meadow Street, Brooklyn, Kings County, New York (Figure 1).

This ESA was conducted to identify current or potential environmental concerns and/or Recognized Environmental Conditions (RECs) resulting from past or current activities on the subject property, as well as to evaluate immediately surrounding environs with the potential to impact upon the property. The assessment consisted of a site reconnaissance of all accessible property areas, a review of State and Federal environmental databases as they concern the subject property and surrounding areas, contact with Federal, State and local agencies, a review of Sanborn Fire Insurance Maps of the subject property and surrounding areas, and a review of local/county records.

The ESA was conducted in a manner consistent with industry standard and practice and in accordance with the Standards of the American Society for Testing and Materials (ASTM) E1527-13 Standard Practice for Environmental Site Assessments. Any deviations from this practice are provided in Section 11.0 of this report.

2.0 RELIANCE/LIMITATIONS

This ESA report was prepared for GO Quay, LLC, for the 213 Meadow Street project and for the objectives of due diligence. The report is intended to be used in its entirety. Excerpts taken from this report are not necessarily representative of the assessment findings. Langan cannot assume responsibility for use of this report for any property other than the subject property addressed herein, or by any third party, without a written authorization from Langan.

Langan's scope of services, as described in the proposal dated 14 December 2021, was limited to that agreed to with GO Quay, LLC and no other services beyond those explicitly stated are implied. No exploratory borings, sampling of soil, soil vapor, or groundwater, or laboratory analysis were performed by Langan as part of the scope of services. Reliance on this report is conditioned on agreement to the terms and conditions provided with the December 2021 proposal.

This Phase I ESA was not intended to be a definitive investigation of possible environmental impacts at the subject property. The purpose of this investigation was limited to determining if there is reason to suspect the possibility of Recognized Environmental Conditions (RECs) at the subject property. It should be understood that even the most comprehensive Phase I ESA may fail to detect environmental liabilities at a particular site. Therefore, Langan cannot "insure" or "certify" that the subject property is free of environmental impacts. No expressed or implied representation or warranty is included or intended in this report, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession. The user is cautioned that federal, state, and local laws may impose environmental obligations that are beyond the scope of ASTM Practice E 1527-13.

The conclusions, opinions and recommendations provided in this report are based solely on the following activities:

- Visual observations of the subject property and the immediate vicinity at the time of Langan's site visit;
- Review of relevant available historical information; and,
- Correspondence and/or discussion with personnel knowledgeable about the site.

The conclusions, opinions and recommendations are intended exclusively for the purpose stated herein, at the specified subject property, as it existed at the time of our site visit.

The User is responsible for the review and identification of environmental liens, activity, and use limitations, and for ascertaining reasons for significantly lower purchase property price in accordance with Section 6 of ASTM E 1527-13. A questionnaire covering these above-concerns was provided to GO Quay, LLC and is included as Appendix A. In addition, a similar questionnaire was provided to the property owner but was not returned; a blank copy is included as Appendix B. If any of these above-concerns were uncovered during the course of the Phase I ESA, they are addressed in this report.

The report findings are based in part on information provided by local, county and state officials and environmental databases from Federal and State sources. Langan assumes no responsibility for the accuracy and completeness of this information.

Visual observations discussed in this report represent conditions at the time of the site inspection and may not be representative of the past or future site conditions.

As per ASTM E1527-13, Phase I ESA Report deviations, as well as professional opinions regarding these deviations, are listed in Section 11.0.

This ESA has been prepared for the sole use of GO Quay, LLC. This ESA should not be relied upon by other parties without the express consent of Langan and GO Quay, LLC. In accordance with Section 4.6 of ASTM E 1527-13 and 40 CFR §312.20, a Phase I ESA may be considered valid for one year starting from the commencement date of the assessment listed on the front cover of this report. The formal property acquisition/real estate transaction must take place during this period. However, the following components must be conducted or updated within 180 days (six months) prior to the date of the property acquisition/real estate transaction:

- Interviews with past and present owners, operators and occupants;
- Searches for recorded environmental cleanup liens;
- Review of governmental records;
- Site Reconnaissance of the property and adjoining properties; and,
- The declaration by the Environmental Professional.

3.0 SITE DESCRIPTION

The subject property is designated as Block 2951, Lots 1, 5, and 45 by the New York City Department of Finance (Figure 2). The subject property is mostly undeveloped with a small one-story structure located on Lot 45, and is currently occupied Castle Demolition truck storage and repairs, food truck storage, and scaffolding storage areas.

The subject property is bound to the north by an undeveloped lot used for automobile junking and storage, followed by Ten Eyck Street and a one-story industrial/ manufacturing building; to the east by the undeveloped lot used for automobile junking and storage followed by Stewart Avenue and a two-story industrial/manufacturing building complex; to the south by Meadow Street followed by a two-story industrial/manufacturing building and parking areas; and, to the west by Varick Avenue followed by a two-story industrial/manufacturing waste management building and transfer station. The subject property is located within an area of dense industrial and manufacturing development on the city block bound by Ten Eyck Street to the north, Stewart Avenue to the east, Meadow Street to the south, and Varick Avenue to the west.

The property is currently zoned as a manufacturing district (M1-3).

4.0 GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

For the purpose of report completeness and to better understand the subsurface conditions, the geologic conditions in the general area of the subject property are discussed in this section.

Based on borings completed during the February 2022 Phase II Environmental Investigation discussed in Section 5.6, site stratigraphy in the western portions of the site consists of a 1- to 2-foot thick layer of concrete underlain by a 4- to 6-foot layer of fill followed by native sand and silty sand. The central portion of the site consists of a 6-foot layer of fill underlain by native sand and silty sand. The eastern portion of the site consists of a 2-foot thick layer of concrete, underlain by an 8- to 15-foot layer of fill followed by native sand, silt, and clay. All borings were completed to approximately 20 feet below ground surface (bgs).

The "Surficial Geologic Map of New York" by the New York State Museum State Geological Survey indicates that the surficial geology at the site consists of till which is generally an impermeable layer comprised of poorly sorted and variably sized clasts. According to the "Bedrock and Engineering Geologic Maps of New York County" by Charles A. Baskerville the site is underlain by the Hartland Formation which consists of interbedded units of feldspar, schist, and amphibolite.

Groundwater was encountered between 9.5 and 11.5 feet bgs in monitoring wells completed during the Phase II EI. Based on site/area topography, groundwater flow is anticipated to be to the west, toward English Kills, a tributary of Newton Creek.

5.0 USER PROVIDED INFORMATION

A questionnaire was completed by the User and is included in Appendix A. Information obtained from this questionnaire is discussed in the sections below. Documents provided by the User are discussed in this section.

5.1 Title Records

A Title Search was not provided by the User for this ESA. Langan completed a limited review of available online records maintained by the New York City Department of Finance to determine current and former site ownership. These records are discussed in Section 8.0.

5.2 Environmental Liens or Activity and Use Limitations

Reasonably ascertainable recorded land title records and lien records that are filed under federal, tribal, state, or local law should be reviewed to identify environmental liens or activity and use limitations, if any, that are currently recorded against the property. Any environmental liens or activity and use limitations are required to be reported to the Environmental Professional conducting the ESA per ASTM E1527-13.

No environmental liens or use limitations (engineering or institutional controls) were identified for the subject property in the radius report or by the User.

5.3 Specialized Knowledge

Specialized knowledge is defined by ASTM E 1527-13 as *"any specialized knowledge or experience that is material to recognized environmental conditions in connection with the property*". For example, a User is involved in the same line of business as current or former occupants of the property or adjoining property and has specialized knowledge of the chemicals and processes used in this line of business.

The User did not provide specialized knowledge material related to recognized environmental conditions in connection with the property as part of this ESA.

5.4 Valuation Reduction for Environmental Issues

In a transaction involving the purchase of a parcel of commercial real estate, the User shall consider the relationship of the purchase price of the property to the fair market value of the property if the property was not affected by hazardous substances or petroleum products. The User should try to identify an explanation for a lower price which does not reasonably reflect fair market value if the property were not contaminated.

The User indicated that no valuation reduction for environmental issues occurred for the subject property.

5.5 Commonly Known Information

If the user is aware of any commonly known or reasonably ascertainable information within the local community about the property that is material to recognized environmental conditions in connection with the property, it is the User's responsibility to communicate such information. This information may include past uses of the property, specific chemicals that were used on site, spills or releases or environmental cleanups that have taken place.

No additional information regarding the environmental condition of the subject site was provided to Langan.

5.6 Documentation Provided by the User

The following previous environmental report pertinent to the property located at 213 Meadow Street is provided in Appendix C:

- *Phase II Environmental Investigation Report,* by Langan, dated 11 March 2022

Phase II Environmental Investigation Report

Langan completed a Phase II Environmental Investigation (EI) in February 2022 to determine if current and historical site operations have impacted subsurface conditions. Seven soil borings, four groundwater monitoring wells, and four soil vapor points were completed across the subject property. Eleven soil samples (plus one duplicate sample), four groundwater samples (plus one duplicate sample), and four soil vapor samples (plus one duplicate sample) were collected for laboratory analysis.

Site stratigraphy generally consisted of between 4 and 15 feet of fill below the site cover and underlain by native sand. All borings were completed to approximately 20 feet below ground surface (bgs).

Odors were observed at all except one boring. Elevated photoionization detector (PID) readings were detected between 4.8 parts-per-million (ppm) and 171 ppm at two borings at 8 and 17 feet bgs, suggesting contamination may be present that was not found during this initial Phase II EI or that weathered petroleum

contamination and nuisance soil conditions are present. However, staining was not observed in any soil borings completed as part of the Phase II EI.

Heavy metal and/or semi-volatile organic compounds (SVOCs) were identified above the NYSDEC SCOs in all seven soil borings. The heavy metals including arsenic, barium, copper, lead, and/or mercury were detected in all soil borings except LSB-4 and LSB-7 at concentrations exceeding the Commercial RUSCOs, Protection of Groundwater SCOs, and/or Industrial RUSCOs. SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and/or dibenzo(a,h)anthracene were detected in all soil borings except LSB-1 and LSB-6 above the Commercial RUSCOs, Protection of Groundwater and/or Restricted Industrial RUSCOs. The volatile organic compound (VOC) acetone, a common laboratory artifact, was detected in one soil boring and perfluorooctanesulfonic acid (PFOS) was detected above the proposed soil SCO in one sample. No other compounds were detected in any of the soil samples collected above the Commercial RUSCOs, Protection of Groundwater SCOs, or Industrial RUSCOs.

Metals were detected in exceedance of the NYSDEC standards and guidance values (SGVs) in all four monitoring wells, including iron, lead, magnesium, manganese, and/or sodium. SVOCs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were detected above the SGVs in two samples. The VOC acetone, a common laboratory artifact, was detected in one sample above the SGVs. 1,4-Dioxane was detected above the drinking water maximum contaminant level (MCL) in two samples and PFOS and perfluorooctanoic acid (PFOA) were detected above the guidance values in all four samples. No other compounds were detected in any of the groundwater samples collected above the SGVs or guidance values.

Soil vapor analytical results revealed the presence of three out of the eight chlorinated VOCs that are listed in the New York State Department of Health (NYSDOH) Vapor Intrusion Guidance Decision Matrices at concentrations below those that would require monitoring or mitigation when compared against the matrices screening levels.

No additional information regarding the environmental condition of the subject site was provided to Langan.

6.0 REVIEW OF PREVIOUS LAND USE

Historic Sanborn Fire Insurance Maps and City Directory Information were requested from Environmental Data Resources (EDR) of Shelton, Connecticut. Provided are descriptions of the materials provided by these resources.

6.1 Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps of the subject property and surrounding area dated 1888, 1907, 1933, 1951, 1965, 1968, 1977, 1979, 1980, 1981, 1982, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 2001, 2002, 2003, 2004, 2005, 2006, and 2007 were obtained from Environmental Data Resources and reviewed as part of this ESA. Copies of Sanborn Maps are provided in Appendix C.

Subject Property

The subject property was identified on Sanborn Maps as being undeveloped from 1888 through 1951 and Ten Eyck Street and Meadow Street to the north and south are labeled as not open during this time period. In 1965, the subject property is labeled as junk and auto wrecking and oil truck parking, and four one-story storage buildings are shown. No changes are shown through 1977, when only one storage building remains, and again through 1986 when the one storage building is no longer shown. In 1989 the subject property is no longer labeled for oil truck parking. In 2001 a portion of the site is depicted as a lumber yard. No changes are shown through 2007.

Adjacent – North

The property to the north on Block 2951 is shown as undeveloped from 1888 through 2007. Ten Eyck Street is labeled an unpaved from 1965 through 2007.

Between 1888 and 1951, the adjacent property to the north across Ten Eyck Street is depicted as being vacant. In 1951, a private garage with an office building, painting room, truck repair facility, and gasoline tank are shown, and the frontage along Varick Avenue is labeled as Preferred Oil Co. Inc. In 1977, the office building is labeled as wire products manufacturing. In 1991 the wire products manufacturer is no longer labeled, and the Varick Avenue frontage is now identified as Vijax Fuel Corp. No changes are shown through 2007.

Adjacent – East

The property to the east on Block 2951 is shown as undeveloped from 1888 through 2007.

In 1888, the adjacent property to the east across Stewart Avenue is depicted as being vacant. In 1907, the property is depicted as part of the Cross, Austin, & Ireland Lumber Yard. No changes are shown through 1933. In 1951, the property is developed with a one- to two-story plastic film manufacturing facility with a one-story warehouse and a disconnected pump house. In 1965, the development is identified as the Elm Coated Fabrics Co. Inc. which operated with vinyl plastics and has expanded to include a larger complex with a one to two-story warehouse and manufacturing space. No changes are shown through 1988. In 1989, the complex is now labeled as Kalex Chemical Products Inc. and is identified as manufacturing use. No changes are shown through 1992. In 1993, the property is no longer labeled as Kalex Chemical Products Inc. No changes are shown through 2007.

Adjacent – South

In 1888, the adjacent properties to the south are depicted as being vacant. No changes are shown in 1907. In 1933, two storage sheds and a two-story structure labeled as A & Rigger with a gasoline tank are shown. In 1951 and 1965, additional one-story buildings of unspecified use and additional two-story structures labeled rigger storage is shown. No changes are shown through 1968. In 1977, the two-story rigger storage building is no longer shown, and a traveling crane is now depicted. No changes are shown through 1986 when the original one-story storage buildings are no longer shown. In 1989, the rest of the storage sheds are no longer depicted, and the gasoline tank is no longer shown. No changes are shown through 2007.

Adjacent – West

In 1888, the adjacent property to the west is depicted as undeveloped and the former extent of Newtown Creek is mapped further to the west on the adjacent block. No changes are shown in 1907 except that Newtown Creek is no longer mapped on the block. In 1933, the property is now depicted as a lumber corporation with a small one-story office building. No changes are shown in 1951. In 1965, the property is now labeled as auto wrecking and parking and depicted with a one-story storage building in the central portion of the site. No changes are shown in 1968. In 1977, the property has been developed as Tubeco Inc. Ecology

Plant with various parking structures and four-story building. No substantive changes are shown through 2007 with the exception that the operator name changes to Star Recycling, Inc. in 1994 and Waste Management in 2005.

Sanborn Map Review Conclusions

The Sanborn Map review revealed historical uses of concern at the subject property including oil truck parking, auto wrecking, and a junk yard between 1960 and 2007.

As discussed in Section 5.6, Langan completed a Phase II EI in February 2022 to determine if current and historical site operations have impacted subsurface conditions. Soil analytical results revealed the presence of contaminated fill material but the Phase II EI did not otherwise identify the presence of impacts associated with historical or current site operations in soil, groundwater, or soil vapor. However, the potential exists that impacts resulting from these uses may be present at the subject property. It is the opinion of the environmental professional that the potential for subsurface impacts as a result of current and historical site use at the subject property represents a business environmental risk.

Historical uses of concern were identified on adjacent properties to the north, including a private garage with truck repair, paint room, gasoline tank, wire product manufacturing, an oil/fuel company, metals stamping, and metal products manufacturing between 1951 and 2007. Historical uses of concern were also identified on adjacent properties to the east including a vinyl plastics company and a chemical products company, both with manufacturing facilities between 1965 and 2007. A gasoline tank is shown on the property to the south between 1933 and 1988 and the adjacent property to the west was used for auto wrecking between 1965 and 1977.

Surrounding property uses of potential concern include an automobile repair facility approximately 455 feet to the north and hydraulically downgradient (1933-1987), filling stations located approximately 310 and 395 feet to the north and hydraulically downgradient of the subject property (1933-1968), and an oil terminal (1933-1968) located hydraulically downgradient of the subject property approximately 200-feet to the northwest across the intersection of Varick Avenue and Ten Eyck Street.

The Phase II EI conducted by Langan in February 2022 revealed the presence of fill material impacted with metals SVOCs, which are typical of urban areas. Groundwater analytical results revealed the presence of elevated concentration of metals and SVOCs which are consistent with fill impacts observed in soil. Evidence of impacts from surrounding sites were not identified.

6.2 City Directory Search

City directory information was obtained from EDR in an attempt to identify past uses of the subject property and establishments in the surrounding area. As provided in the City Directory Abstract (Appendix D), business directories including city, cross-reference and telephone directories were reviewed. City directories include the site address for the years 1960 and 1965.

The City Directory Report for the subject property listings consists of auto wrecking and demolition and salvage companies. The following historic listings refer to businesses of potential concern that were formerly located on the subject property:

Address	Business Name	Listing Date
190 Varick Avenue	Genl Wrecking Corp	1960
	Demolition & Salvage Co Inc.	1960
	South Shore Wrecking Corp.	1965

Listings over the years for adjacent properties identified businesses of potential concern and confirmed site uses presented on the Sanborn Maps including a fuel oil company (1949-1994) and wire products manufacturer (1970-1973) on the adjacent property to the north, a recycling/waste management facility (1973-2017) on the adjacent property to the west, the coated fabrics and chemical company on the adjacent property to the east (1949-1985), and the fuel oil company across the intersection of Varick Street and Ten Eyck Street to the northwest (1945).

City Directory Review Conclusions

Based on the review of the City Directory Abstract, the Sanborn Maps (discussed above), and the radius report (discussed in detail below), it is the opinion of the environmental professional that the potential for subsurface impacts as a result of current and historical site use at the subject property represents a business environmental risk.

7.0 REGULATORY DATABASE SEARCH

A database search report that identifies sites listed on state and federal databases within the ASTM-required radii was obtained for the property from Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut. A copy of EDR's complete report is provided as Appendix E.

The report included the following databases specified by the ASTM Phase I protocol as well as non-ASTM databases (not listed):

RECOMMENDED/**REQUIRED** SEARCH DISTANCES
1.0-mile
Federal National Priority List (NPL)
Federal RCRA CORRACTS Facilities List
State- and Tribal-Equivalent NPL
0.5-mile
Federal Delisted NPL
Federal CERCLIS/SEMS**
Federal CERCLIS NFRAP List/SEMS-Archive**
Federal RCRA non-CORRACTS TSD Facilities List
State- and Tribal-Equivalent CERCLIS
State and Tribal Landfill and/or Solid Waste Disposal Site Lists
State and Tribal Leaking Underground Storage Tanks (LUSTs)
State and Tribal Voluntary Cleanup Sites
State and Tribal Brownfields Sites
Subject Property and Adjacent Properties Only
Federal RCRA Generators List
State and Tribal Registered Storage Tanks
Subject Property Only
Federal ERNS List
Federal Institutional Controls/Engineering Controls Registries
State and Tribal Institutional Controls/Engineering Controls Registries

* A description of these databases and a complete listing of sites identified on the above-referenced databases is provided in the EDR Report.

** As of March 2016, SEMS replaced the CERCLIS database and SEMS-Archive replaced the CERCLIS NFRAP database.

Subject Property

The subject property is identified as Castle Sanitation Corporation and Casalino Interior Demolition located at 213 Meadow Street in the following databases searched by the EDR radius report:

- Casalino Interior Demolition is identified in the NY Spills database for a release reported to the department on 31 March 1994 and assigned NYSDEC Spill No. 9315532. According to the case narrative provided by NYSDEC, a tank truck spilled approximately 5-gallons of diesel onto the concrete and clean up was in progress by Whale Co. at the time of the spill report. No additional information was provided and the spill was administratively closed on 31 March 1994.
- Casalino Interior Demolition is identified in the Solid Waste Facilities/Landfill Sites (SWF/LF) database as an inactive C&D processing facility.
- Recovered Government Archive Landfill database for having previously been classified as a landfill facility between 2004 and 2012.
- Facility Index System (FINDS) database (No. NYR00G305) for non-major National Pollutant Discharge Elimination System (NPDES) non-major and storm water industrial permits and the Environmental Compliance & History (ECHO) database (No. 110070625464) for facility tracking under the Clean Water Act for a minor permit. No violations are currently identified during the most recent compliance period from July-September 2021, although violations were reported for submission of late discharge monitoring reports during the January-March 2021 and April-June 2021 compliance periods.

Surrounding Properties

Based on the large number of database records identified within one mile of the subject property (348), Langan limited the review of surrounding properties to adjacent sites and sites within 1/8-mile from the subject property. It is the environmental professional's opinion that based on the dense development of the site area, and former, current and proposed use of the site that the review of the database pertaining to this more limited area is appropriate.

Langan evaluated the following to determine whether additional environmental records with respect to these facilities, including the orphan sites, should be reviewed:

- Case status (i.e., whether a No Further Action letter has been issued or a case has been closed);

- Type of database and whether the presence of soil or ground water contamination is known;
- Distance of the site from the subject property; and,
- Whether the site is upgradient or downgradient of the subject property based on local topography and the anticipated western groundwater flow direction.

Database	No. of Sites within 1-mile	Adjacent sites (Y/N)	No. of Adjacent Sites
NPL	1	N	--

Database	No. of Sites within 1/2-mile	Adjacent sites (Y/N)	No. of Adjacent Sites
RCRA-TSDF	0	N	--

Database	No. of Sites Reported	Adjacent sites (Y/N)	No. of Adjacent Sites
SEMS	2	N	--
SEMS-ARCHIVE	5	N	--
RCRA-LQG	7	N	--
RCRA-SQG	3	Y	1
RCRA-VSQG	5	Y	1
RCRA NonGen/NLR	37	Y	5
NY MANIFEST	49	Y	8
PA MANIFEST	2	N	--
NJ MANIFEST	13	Y	3
NY SHWS	15	N	--
NY SWF/LF	30	Y	1
NY UST	20	Y	1
NY MOSF UST	4	N	--
NY CBS	3	N	--
NY MOSF	5	N	--
NY AST	17	Y	2
NY CBS AST	2	N	--
NY MOSF AST	4	N	--
NY ENG CONTROLS	3	N	--
NY INST CONTROL	3	N	--
NY VCP	6	N	--
NY BROWNFIELDS	6	N	--
NY SWRCY	12	N	--
ROD	1	N	--
NY HSWDS	7	N	--
FUELS PROGRAM	1	N	--
EDR MGP	3	N	--

Database	No. of Sites within 1/8-mile	No. Cases Open/Closed	Open Upgradient Cases	No of Adjacent Sites
LTANKS	4	0 / 4	0	0
NY Spills	37	0 / 46	0	7

Langan reviewed the information provided using the above criteria and the findings for adjacent and notable records are discussed below.

Newtown Creek

The Newtown Creek Superfund Site is a tidal arm of the New York-New Jersey Harbor Estuary, comprised of five tributaries over approximately 3.8-miles between the northwestern boundary of Brooklyn and the southwestern boundary of Queens. The Creek historically contained more than 50 oil and petrochemical refineries, fertilizer and glue factories, sawmills, lumber yards, and coal yards along its banks. A multi-year Remedial Investigation and Feasibility Study began in February 2010 and is anticipated to be completed in early 2019 according to the USEPA. To date, no decision documents have been issued by the USEPA confirming a proposed remedial action for each of the four Operable Units (OUs) of the Site. The geospatial site location is defined at the English Kills section of Newtown Creek, which is located at the south end of Ivy Hill Road in Brooklyn, New York. It is the opinion of the environmental professional that the potential for adverse environmental impacts to the subject property from this site is low.

210 Varick Avenue

The property located adjacent to the north and hydraulically cross-gradient of the subject property at 210 Varick Avenue is identified as Vijax Corporation in the NY UST database as unregulated/closed Petroleum Bulk Storage (PBS) Facility No. 2-080454 for one 2,750-gallon No. 2 fuel oil UST closed in place on 1 September 2002 and one 4,000-gallon No. 2 fuel oil UST closed in place on 1 October 1981. The site is also identified in the following databases:

- NY Spills database for a release reported to the department on 17 March 2015 and assigned NYSDEC Spill No. 1411768. According to the NYSDEC case narrative provided by EDR, a concrete truck overturned and spilled approximately 15-gallons of diesel onto the street only. FDNY cleaned up the spilled product and placed it into a drum for disposal. The spill was administratively closed on 17 March 2015.

- NY Spills database for a release reported to the department on 20 July 2011 and assigned NYSDEC Spill No. 1205626. According to the NYSDEC case narrative provided by EDR, a spill was discovered during a site investigation at the neighboring property to the west. The investigation found contamination in soil and groundwater associated with a gasoline UST and the property owners of 210 Varick Avenue were requested to perform a site investigation to investigate the source of the spill. The property owner was non-responsive and no investigation was performed; NYSDEC ultimately determined that there was no evidence of a threat to the public or the environment from the contamination found and the spill was administratively closed on 22 September 2015.
- Con Edison is identified in the RCRA NonGen/NLR database for forms received by the USEPA on 15 June 2014 classifying the site as not a generator of hazardous waste. Historical generator information includes forms received by the USEPA on 15 May 2014 classifying the site as a small quantity generator. No violations are reported for the facility. The site is also identified on the NY Manifest database for the disposal of waste impacted with hazardous concentrations of lead in 2018.

Varick Avenue & Meadow Street

Con Edison, located adjacent to the southwest and hydraulically cross-gradient of the subject property at Varick Avenue and Meadow Street was identified in the RCRA NonGen/NLR database for forms received by the USEPA on 6 May 2015 classifying the site as not a generator of hazardous waste. Historical generator information includes forms received by the USEPA on 5 February 2016 and 6 May 2015 classifying the site as a large quantity generator. No violations were reported for the facility. The property was also identified on the NY Manifest database for the disposal of waste impacted with hazardous concentrations of lead in 2015.

Stewart Avenue & Meadow Street

Con Edison, located adjacent to the southeast and hydraulically upgradient of the subject property at Stewart Avenue and Meadow Street was identified in the following databases:

- RCRA NonGen/NLR database for forms received by the USEPA on 26 February 2015 classifying the site as not a generator of hazardous waste. Historical generator information includes forms received by the USEPA on 26 February 2015 classifying the site as a small quantity generator (SQG). No violations were reported for the facility.

- RCRA Very Small Quantity Generator (VSQG) database for forms received by the USEPA on 1 June 2016 classifying the site as a very small quantity generator of hazardous waste. Historical generator information includes forms received by the USEPA on 23 July 2009 and 1 June 2016 classifying the site as a conditionally exempt small quantity generator (CESQG). No violations were reported for the facility.
- NY Manifest database for the disposal of waste impacted with hazardous concentrations of lead in 2009 and 2015.
- NJ Manifest database for the disposal of hazardous waste in 2015.
- The site is also identified as Manhole #57877 and identified in the NY Spills database for a release reported to the department on 21 January 2000 and assigned NYSDEC Spill No. 9912167. According to the case narrative provided by EDR, approximately a half quart of unknown oil was found on 100 gallons of water contained within a manhole and cleanup was pending. The spill was administratively closed on 19 March 2002.
- The site is also identified as Unknown – Drum Run and is identified in the NY Spills database for a release reported to the department on 27 July 2017 and assigned NYSDEC Spill No. 1704150. According to the case narrative provided by EDR, smaller containers of waste oil were overpacked into a 55-gallon drum and was ready for pickup. No additional information was provided and the spill was administratively closed on 1 September 2017.

<u>221-243 Meadow Street</u>

Vault 434, located adjacent to the east and hydraulically upgradient of the subject property at 221 Meadow Street was identified in the NY Spills database for a release reported to the department on 9 October 2002 and assigned NYSDEC Spill No. 0207116. According to the case narrative provided by EDR, dielectric fluid leaked from a transformer and mixed with soil on the concrete floor of the vault. The spill was contained and cleaned up. Asbestos abatement and closure of the transformer occurred, and the transformer was removed from the vault. The spill was administratively closed on 29 March 2003. The site was also identified in the NY Manifest database for the disposal of unspecified hazardous waste.

Vault 434, located at 221-41 Meadow Street, was identified in the NY Spills database for a release reported to the department on 10 January 2008 and assigned NYSDEC Spill No. 0508686. According to the case narrative provided by EDR, approximately one quart of an unknown oil was mixed with leaves on the concrete floor of the vault. The spill was contained and cleaned up. The spill was administratively closed on 10 January 2008.

Con Edison, located at 243 Meadow Street, was identified in the RCRA LQG database for forms received by the USEPA on 7 April 2014 classifying the site as a large quantity generator for the generation of hazardous waste impacted with lead. Historical generator information includes forms received by the USEPA on 29 March 2013 classifying the site as a CESQG and on 29 April 2013 classifying the site as not a generator. No violations were reported for the facility. Additionally, the property is identified in the following databases:

- NY Manifest database for the disposal of unreported hazardous waste.
- NY Spills database for a release reported to the department on 7 September 2006 and assigned NYSDEC Spill No. 0606519. According to the case narrative provided by EDR, dielectric fluid was seen leaking and entering a sewer drain. No additional information was provided and the spill was administratively closed on 7 September 2006.

1250 Metropolitan Avenue

Consolidated Packaging Group, located adjacent to the east and hydraulically up-gradient of the subject property at 1250 Metropolitan Avenue is identified in the following databases:

- RCRA SQG database for forms received by the USEPA on 7 March 2008 classifying the site as a small quantity generator of ignitable waste, and waste impacted with hazardous concentrations of spend halogenated and non-halogenated solvents. Historical generator information includes forms received by the USEPA on 8 March 1990, 21 January 2004, 1 January 2006, 1 January 2007, and 7 March 2008 classifying the site as a small quantity generator, and on 1 January 2001, 19 February 2002, and 16 December 2004 classifying the site as a large quantity generator. Violations were reported for the facility.
- NJ Manifest database for the disposal of hazardous waste in 2004, 2005, 2006, and 2007.
- NY Manifest database for the disposal of waste impacted with hazardous concentrations of spent halogenated solvents and ignitable waste in 2006,
- US Aerometric Information Retrieval System (US AIRS) databases for compliance monitoring.
- FINDS and ECHO databases for being active in the RCRA program.

The subject property is also identified as Aljo Auto Electric Corp and is identified in the RCRA NonGen/NLR database for forms received by the USEPA on 1 January 2007 classifying the site as not a generator of hazardous waste. Historical generator information includes forms received by the USEPA on 8 July 1999 and 1 January 2006 classifying the site as not a generator, and on 11 August 1994 classifying the site as a SQG. No violations were reported for the facility.

221 Varick Street

Waste Management of NY LLC, located adjacent to the west and hydraulically down-gradient of the subject property at 215-221 Varick Avenue, is identified in the following databases:

- NY AST database as active PBS Facility No. 2-605532 for one 2,000-gallon diesel AST closed and removed on 1 January 1990, one in-service 275-gallon waste oil/used oil AST installed on 1 January 1990, one in-service 550-gallon lube oil AST installed on 1 January 1990, and one in-service 550-gallon hydraulic oil AST installed on 15 January 1997.
- NY AST database as unregulated/closed PBS Facility No. 2-602605 for one 2,000-gallon diesel AST converted to non-regulated use, one 275-gallon AST of unreported contents converted to non-regulated use, and one 275-gallon lube oil AST tank converted to non-regulated use.
- RCRA NonGen/NLR database for forms received by the USEPA on 1 January 2007 classifying the site as not a generator of hazardous waste. Historical generator information includes forms received by the USEPA on 1 January 2006 classifying the site as not a generator, on 22 July 2005 classifying the site as a large quantity generator. Violations were reported for the facility but the case is reportedly closed.
- NY Manifest database for the disposal of ignitable waste in 2007.
- SWF/LF database as an active transfer station for yard waste and residential, institutional, and commercial waste.
- NY Financial Assurance for closure of the transfer station in 2004.

NY LTANKS

The NY LTANKS database contains an inventory of reported leaking storage tank incidents from April 1986 to the present. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents identified within this database are either tank test failures, tank failures or tank overfills.

According to the Radius Report provided by EDR, there are four NY LTANKS sites located within 1/8-mile of the subject property; each of the spill cases associated with these sites were administratively closed between 1987 and 2006. There are no NY LTANK sites located adjacent to the subject property. Due to the closed regulatory status of the spill cases, it is the opinion of the environmental professional that the potential for adverse impacts to the subject property from these sites is low.

NY Spills

The NY Spills database includes data collected on spills reported to NYSDEC. It includes spills active as of April 1, 1986, as well as spills occurring since this date. According to the Radius Report provided by EDR, there are 37 NY Spills sites located within 1/8-mile of the subject property; each of the NY Spills cases were administratively closed between 1992 and 2019. There are seven NY Spills sites located adjacent to the subject property and are discussed in detail above. Due to the cleanup activities completed and the closed regulatory status of the spill cases, it is the opinion of the environmental professional that the potential for adverse impacts to the subject property from these sites is low. Two notable closed spills are discussed below.

Manhattan Poly Bag Corp, located approximately 310 feet to the northwest and downgradient of the subject property at 1150 Metropolitan Avenue is identified in the NY Spills database for a release reported to the facility on 22 November 2006 and assigned NYSDEC Spill No. 0609662. According to the case narrative provided by EDR, petroleum odors and staining along with elevated PID readings were identified in eight soil borings during a Phase II Environmental Site Investigation. Elevated VOCs, SVOCs and metals were present in groundwater. A remediation work plan was submitted and sodium persulfate injections were performed. Groundwater sampling was performed after chemical injections and showed decreased levels of VOCs and SVOCs in groundwater and a No Further Action letter was approved for the site. The spill was administratively closed on 28 July 2009.

Metro Garage located approximately 296 feet to the north and cross-gradient of the subject property at 1188 Metropolitan Avenue is identified in the NY Spill database for a release reported to the department on 17 June 2003 and assigned NYSDEC Spill No. 0302832. According to the case narrative provided by EDR, a gas station that was never registered was court ordered to remove tanks onsite. Seven 550-gallon tanks were removed, three 550-gallon tanks were abandoned in place, and four additional tanks were planned to be removed. The soil in the excavation area of these USTs

was heavily contaminated. Delineation was performed and soil and groundwater samples were collected and revealed concentrations of VOCs and SVOCs in upgradient monitoring wells. The exceedances were linked to a potential previously closed UST at the neighboring property. Additional sampling was performed around that closed UST at the neighboring property. VOCs and SVOC results came back well below standards. NYSDEC determined that there was no threat to the public or the environment and the spill was administratively closed on 18 January 2012.

Government Databases Review Conclusions

The subject property is identified in the NY Spills database for a release reported to the department on 31 March 1994 and assigned NYSDEC Spill No. 9315532. According to the case narrative provided by EDR, a tank truck spilled approximately 5-gallons of diesel onto the concrete and clean up was in progress by Whale Co. No additional information was provided and the spill was administratively closed on 31 March 1994. It is of the opinion of the environmental professional that the closed spill represents an HREC.

Based on the review of the City Directory Abstract and the Sanborn Maps (discussed above) and the radius report, historical uses of concern at the subject property included oil truck parking, auto wrecking, and a junk yard between 1960 and 2007 and as a solid waste transfer facility for yard waste and residential, institutional, and commercial waste from at least 2004 through 2012.

As discussed in Section 5.6, Langan completed a Phase II EI in February 2022 to determine if current and historical site operations have impacted subsurface conditions. Soil analytical results revealed the presence of contaminated fill material but the Phase II EI. However, the potential exists that impacts resulting from these uses may be present at the subject property. It is the opinion of the environmental professional that the potential for subsurface impacts as a result of current and historical site use at the subject property represents a business environmental risk.

Based on the review of the City Directory Abstract and the Sanborn Maps (discussed above) and the radius report, historical and current uses of surrounding sites includes a private garage with truck repair, paint room, gasoline tank, wire product manufacturing, an oil/fuel company, metals stamping, and metal products manufacturing between 1951 and 2007, a vinyl plastics company and a chemical products company with manufacturing facilities between 1965 and 2007, gasoline storage between 1933 and 1988, auto

wrecking between 1965 and 1977, an automobile repair facility (1933-1987), filling stations (1933-1968), and an oil terminal (1933-1968).

A Phase II Environmental Investigation (EI) conducted by Langan in February 2022 revealed the presence of fill material impacted with metals and semi-volatile organic compounds (SVOCs), which are typical of urban areas. Groundwater analytical results revealed the presence of elevated concentration of metals and SVOCs, which are consistent with fill impacts observed in soil. Evidence of impacts from surrounding sites were not identified.

Additionally, the potential for vapor intrusion impacts to the subject property from onsite or nearby sources was evaluated. No specific potential vapor intrusion concerns (pVICs) were identified as part of this Phase I ESA or in the soil vapor analytical results from the Phase II EI; however, it should be noted that due to the number of spill sites identified in the area of the subject property and the associated potential for groundwater impacts in the site area, vapor intrusion issues at the site may exist. These conditions are consistent with the urban setting in which the subject property is located and do not present a specific or unique concern for the subject property.

8.0 GOVERNMENT AGENCY RECORDS REVIEW

Federal, state and local agencies were contacted via written correspondence, telephone interviews and/or personnel interviews regarding records of environmental concerns, violations, and/or permits, or any other potentially environmentally-relevant records on the subject property. In additional, government information that was readily available online on government websites was also reviewed. A listing of agencies/individuals contacted by Langan as part of this ESA is provided in Table 1. Copies of government correspondence are provided in Appendix F.

US Environmental Protection Agency (USEPA)

Langan reviewed the online USEPA MyProperty database (https://enviro.epa.gov/facts/myproperty/) and the RCRAInfo Search, ECHO, and the Superfund Enterprise Management System (SEMS) databases maintained online by USEPA. Review of available records verified the radius report listings discussed in Section 7.0.

US Fish and Wildlife Service (US FWS)

Information regarding critical habitats or endangered species with the vicinity of the subject property was obtained from the US FWS Information Service Information for Planning and Conservation online database (https://ecos.fws.gov/ipac/). The federally-listed candidate insect species the monarch butterfly, the federally-listed threatened bird species the piping plover and the red knot, and the flowering plant seabeach amaranth and the federally-listed endangered bird species the roseate tern are known to exist in the vicinity of the subject property.

New York State Department of Environmental Conservation Region 2

The NYSDEC Region 2 office was contacted by Langan on 20 January 2022 and online file review requests were submitted for the subject property. In an email dated 21 January 2022, Langan received a response acknowledging receipt of the request. To date, no response has been received. If any additional pertinent information is provided subsequent to issuance of this report, it will be provided as an addendum. Langan also reviewed the Environmental Site Database records maintained online by the NYSDEC. No storage tanks or remediation sites were identified for the subject property. Spill No. 9315532 was identified for the site and is discussed in detail above.

NYSDEC Division of Fish, Wildlife, & Marine Resources

Langan reviewed records maintained online on the NYSDEC Environmental Resource Mapper (http://www.dec.ny.gov/gis/erm/) which revealed that no state-designated significant natural communities and rare plants and animals are found in the vicinity of the subject property. Based on these results, a written records request was not submitted.

New York State Department of Health (NYSDOH)

The NYSDOH Records Access Officer was contacted by Langan on 20 January 2022 and an online file review requests was submitted for the subject property. In an email dated 21 January 2022, Langan received acknowledgement from the NYSDOH of the records request. To date, no response has been received by Langan regarding this request. If any additional pertinent information is provided subsequent to issuance of this report that will change the conclusions of this report, it will be provided as an addendum.

New York City Department of Environmental Protection (NYCDEP)

On 20 January 2022, the NYCDEP online FOIL request form was submitted for the subject property. In an email dated 20 January 2022, Langan received acknowledgement from the NYCDEP of the records request. In an email dated 26 January 2022, Langan received a response indicating that no records are available for the subject property. If any

additional pertinent information is provided subsequent to issuance of this report that will change the conclusions of this report, it will be provided as an addendum.

According to records maintained online by the NYCDEP Clean Air Tracking System (CATS), no boiler records are documented for the subject property.

New York City Department of Health & Mental Hygiene (NYC DOHMH)

The NYC DOHMH Records Office was contacted by Langan and an online file review request was submitted for the subject property on 20 January 2022. In an email dated 8 February 2022, Langan received acknowledgement from the NYC DOHMH of the records request. In a letter dated 7 February 2022, Langan received a response from the Office of Environmental Investigations stating no records are available for the subject property. If any additional pertinent information is provided subsequent to issuance of this report that will change the conclusions of this report, it will be provided as an addendum.

New York City Department of City Planning (NYC DCP)

An electronic version (effective zoning date 23 November 2021) of the NYC Zoning Map for the subject property was downloaded from the NYC DCP website (http://www.nyc.gov/html/dcp/html/zone/zh_zmaptable.shtml).

New York City Mayor's Office of Environmental Coordination (NYC MOEC)

Records maintained online by NYC MOEC through the CEQR Access Portal (https://a002-ceqraccess.nyc.gov/ceqr/) were reviewed on 20 January 2022. The subject property was not identified as being a part of the CEQR program.

'E'-Designation Status

The New York City Department of City Planning coordinated a program identifying properties for special environmental concerns based on documented historical use, neighborhood noise concerns, and neighborhood air quality issues. These properties are identified on 'E'-designated sites on zoning maps and in the NYC Department of Buildings (NYCDOB) Building Information System (BIS) database. The NYCDOB is restricted from issuing building permits for the property until the NYC Mayor's Office of Environmental Remediation (NYC OER) has reviewed information prepared by an environmental professional and made a determination to issue of "Notice-of-No-Objection" or a "Notice-to-Proceed" to the NYCDOB. Prior to the NYCOER's creation in 2008, the NYC Department of Environmental Protection (NYCDEP) conducted these reviews.

Langan reviewed the following information sources to determine if the subject property is listed as an 'E'-designated property:

- Appendix C: CEQR Environmental Designations List (https://zr.planning.nyc.gov/appendix-c-table-1-city-environmental-quality-review-ceqr-environmental-requirements-e-designations) on 18 February 2022
- Appendix C: CEQR Restrictive Declaration List (https://zr.planning.nyc.gov/appendix-c-table-2-city-environmental-quality-review-ceqr-environmental-requirements-environmental) on 18 February 2022
- NYCOER Environmental Project Information Center (EPIC) (https://a002-epic.nyc.gov/app/search/erdproperty) on 18 February 2022, and,
- NYCDOB BIS on 18 February 2022 (http://a810-bisweb.nyc.gov/bisweb/bispi00.jsp)

The subject property was not listed as an E-designated site based on these resources.

New York City Department of Buildings (NYC DOB)

Langan completed a limited review of available records maintained online by the NYC DOB. The only Certificate of Occupancy available for Lot 45 was dated 22 July 1993 and revealed that the lot is approved for a junk and salvage yard and parking. This corresponds to a permits approved in 1993 to change the use of the lot for vacant to junk and salvage yard and to erect temporary structures and install three 275-gallon motor oil tanks for this use. A demolition permit was issued for the lot in 1911. The only Certificate of Occupancy available for Lot 1 was dated 11 December 1956 and revealed that the lot is approved for a junk yard, metal and car wrecking, and a temporary shed. No information was available for Lot 5.

New York City Department of Finance (NYC DOF)

Langan completed a limited review of available records maintained online by the NYC DOF to determine current and former site ownership (https://a836-acris.nyc.gov/CP/). According to the DOF Automated City Register Information System (ACRIS), Lot 45 is currently owned by Meadow St. Rlty Corp, and Lot 1 and 5 are currently owned by 190 Varick Ave Realty Cp. Ownership history was available from 1969 to present. The ownership information reviewed provided no additional information regarding environmental conditions related to past usage different than represented by review of other historical information sources.

9.0 SITE RECONNAISSANCE

Langan conducted an inspection of the site on 25 January 2022. The inspection included a walk-through inspection of the entire site for the purposes of identifying Recognized Environmental Conditions (RECs). Typical RECs may include:

Drum storage	Dumpsters	Aboveground storage tanks	Stained areas
Drains and Sumps	Wells	Underground storage tanks	Pump stations
Waste piles	Landfills	Loading and transfer areas	Boiler rooms
Pits, Ponds, Lagoons	Swales	Process air vents	Process sinks
Storm sewers	Trenches	Detention ponds	PCBs
Impoundments	Lagoons	Floor drains and piping	Transformers
Septic systems	Dry wells	Waste treatment areas	Capacitors
Rail spurs	Incinerators	Compressor discharges	Odors
Pools of liquid	Wastewater	Stressed vegetation	Surface waters

Limiting conditions encountered during the inspection of the site included the following:

- Portions of ground surface in each lot could not be observed due to truck parking and equipment storage.

Photographs of the subject property taken during the site inspection are provided in Appendix G. Langan was accompanied by a representative from Castle Demolition who provided access to onsite buildings and answered questions during the site inspection. A questionnaire was not completed by the property owner, operator, and site manager; a blank copy is included as Appendix B. The inspection included a walk-through inspection of the entire site for the purposes of identifying Recognized Environmental Conditions (RECs) as detailed below.

The southeast and southern portions of the subject property is occupied by Castle Demolition Corporation (Lot 45), the southwestern portion of the subject property is leased and used as food truck parking and contains a storage container used as an office (Lot 1), and the northwestern portion of the site is leased and used as scaffolding storage and contains several storage containers used as an office and storage (Lot 5). Lot 45 is separated by fencing into two parcels for Castle Demolition Corporation's operations. One area is used as truck storage and the other area is used as the truck repair area. The truck repair area contains a one-story shed along with several other storage containers and structures providing roofs over supplies and materials. All lots are separated by fencing and are only accessible from the street.

An out-of-service fuel oil AST is present in the south-central area of Lot 45 under a partial shed, and three 275-gallon ASTs, consisting of one waste oil, one motor oil, and one hydraulic oil AST are present in the northeastern portion in the truck repair area of Lot 45. Additionally located in the truck repair area is a one-story storage shed in the north-central portion of Lot 45 and contained approximately 14 55-gallons drum containing degreasers, motor oil, and hydraulic oil. The drums were staged on secondary containment pallets. Additional quart and gallon-sized containers containing a variety of degreasers and motor oil were also observed in the storage shed. Speedy dry and stained concrete were observed throughout the truck repair area in the southeastern lot. Several suspected drains and open-hole sumps were observed under metal plates throughout the subject property. At the time of the site inspection, the representative onsite from Castle Demolition could not confirm the purpose of the drains and open-hole sumps.

Adjacent Properties

A visual inspection of adjoining properties from the subject property line and public rights-of-way including a visual inspection where hazardous substances may be or may have been stored, treated, handled, or disposed was also conducted.

Limiting conditions encountered during the inspection of adjoining properties were encountered due to the dense urban nature of the surrounding areas which only allowed for limited line of sight that did not extend to areas where hazardous materials or substances might be stored.

Properties located adjacent to the subject property consist of warehouses, truck parking and staging, and a Waste Management facility. No other visual evidence of hazardous material storage, treatment, handling, or disposal areas was observed at adjacent properties.

10.0 ADDITIONAL ISSUES

The following items fall outside the scope of ASTM 1527-13, however Langan can and often does provide these services to its clients if specifically requested and included in the proposed scope of work or are issues that may impact current or proposed site use.

10.1 Wetlands/Floodplain Designation

Langan reviewed the United States Fish and Wildlife National Wetland Inventory (NWI) and New York State Freshwater Wetlands maps. Based on these documents no mapped wetlands are listed on the subject property. No evidence of the presence of existing onsite wetlands was identified during Langan's site inspection. However, a formal wetland and floodplain designation assessment was not conducted as part of this ESA.

10.2 Protected Endangered Species / Critical Habitats

A determination regarding the potential presence of protected or endangered species and critical habitats on or near the subject property was not conducted as part of this ESA. This determination is often required in order to receive state or federal grants, loans, and/or permits.

Based on historic use of the subject property and the current condition and urban setting of the site, the potential presence of threatened or endangered (T&E) species on the site is low. A request for information regarding T&E species on the site was provided to New York State Division of Fish, Wildlife and Marine Resources (NYSDFWMR) and to the United States Fish and Wildlife Service (USFWS). This correspondence is discussed in detail in Section 8.0.

10.3 Asbestos

In 1973, use of sprayed on fireproofing on structural building components was prohibited by the EPA. On July 12, 1989, EPA issued a final rule banning most friable asbestos-containing products. The following specific asbestos-containing products remain banned: flooring felt, roll board, and corrugated, commercial, or specialty paper. In addition, the regulation continues to ban the use of asbestos in products that have not historically contained asbestos, otherwise referred to as "new uses" of asbestos. Use of asbestos in textured paint and in patching compounds used on wall and ceiling joints was banned in 1977.

An asbestos survey was not conducted as part of this ESA as there are no permanent structures present at the subject property.

10.4 Lead-based Paint

In 1977, the Consumer Product Safety Commission (CPSC) banned the use of lead based paint (LBP) in housing and restricted maximum levels in lead in new residential paint to less than 0.05% by weight. A lead-based paint inspection was not conducted as part of this ESA as there are no permanent structures present at the subject property.

10.5 Lead in Drinking Water

A lead in drinking water survey was not conducted as part of this ESA.

10.6 Indoor Air / Microbial Assessment (Mold)

A mold survey was not conducted as part of this ESA.

10.7 Radon

The subject property is located in a Tier 3 Zone as identified by USEPA based on sampling conducted of buildings within the site area. The Tier 3 Zone is considered an area of low radon gas intrusion potential with typically concentrations less than 2 pCi/liter. A radon survey of the existing building was not conducted as part of this ESA. Radon test results from adjacent or surrounding properties are not necessarily indicative of radon conditions on the subject property. As no building specific radon survey documentation was provided to Langan, no opinion regarding potential risks associated with radon gas exposure can be made.

As per USEPA guidelines, the only way to assess potential radon gas exposure risks is to conduct a radon assessment. In addition, the US EPA recommends that follow-up tests on large buildings should be conducted when major modifications are made either to the building structure or HVAC system or the HVAC system's operation settings.

10.8 Historical and Archaeological Review

Langan reviewed the NYCityMap (http://maps.nyc.gov/doitt/nycitymap/) to review the potential presence of historical landmark buildings near the subject property. As of 18 February 2022, no historical landmark buildings were identified on or near the property.

In addition, Langan reviewed the New York City Landmarks Preservation Commission (NYCLPC) online historic maps (https://nyclpc.maps.arcgis.com/apps/webappviewer/index.html?id=93a88691cace4067828b1eede432022b). As of 18 February 2022, no Historic Districts or Landmarks were identified on the subject property.

Langan also reviewed the NYSHPO online database (http://nysparks.com/shpo/online-tools/). As of 18 February 2022, no National Register Listed or State Register Listed sites were identified on or adjacent to the subject property.

11.0 DEVIATIONS

This Phase I ESA conforms with ASTM with the following deviations noted:

- Data gaps in excess of 5 years were encountered during the review of historic resources;
- Government agencies that have not responded to record review inquiries are listed above - additional pertinent information provided to Langan subsequent to the issuance of this report will be provided in an addendum;
- Limited visual access was provided as part of this ESA due to vehicles parked across the subject property as identified in Section 9.0;
- Based on the large number of database records identified within one mile of the subject property (348), Langan limited the review of surrounding properties to adjacent sites and sites within 1/8-mile from the subject property;
- Interviews of former business operators were not conducted;
- Interviews of property owners were not conducted;
- Questionnaires were not completed by the property owner, operator, or site manager; and,
- A FOIL request was not submitted to the New York City Fire Department (FDNY) as response times do not meet ASTM's Reasonable Time and Cost requirements.

It is the opinion of the reviewing Environmental Professional that the above deficiencies will not detrimentally affect the identification of potential recognized environmental conditions. This opinion is based on the following factors:

- Based on the Sanborn Maps and the City Directory information reviewed, the use of the property is consistent between the 5-year data gaps. Therefore, operations on the site between these data gaps will not detrimentally affect the identification potential RECs.
- Langan limited the database review to adjacent sites and sites within 1/8-mile from the subject property. It is the environmental professional's opinion that based on the dense development of the site area, and former, current and proposed use of the site that the review of the database pertaining to this more limited area is appropriate and will not detrimentally affect the identification of potential recognized environmental conditions.

12.0 FINDINGS/OPINIONS

Based on information obtained during the visual inspection of the subject property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following recognized environmental conditions (RECs), historic recognized environmental conditions (HRECs), de minimis conditions and business environmental risks that may impact proposed redevelopment of the site were identified:

1. Presence of contaminated urban fill;
2. Spill Case #9315532;
3. Motor Oil Release;
4. Current and historic site operation; and,
5. Potential presence of undocumented USTs.

Contaminated fill material impacted with metals and SVOCs at concentrations exceeding the NYSDEC Commercial RUSCOs, Industrial RUSCOs, and/or Protection of Groundwater SCOs was identified at the subject property during the Phase II EI. Finding 1 represents a REC. The subject property is identified in the NY Spills database for a release reported to the department on 31 March 1994 and assigned NYSDEC Spill No. 9315532. The spill was administratively closed on 31 March 1994, therefore Finding 2 represents a HREC. Evidence of a release of oil limited to small, isolated areas on the concrete in the southeastern lot of the subject property was observed during Langan's site inspection. It is the opinion of the environmental professional that Finding 3 represents a de minimis

condition. Historical site use consisted of oil truck parking, auto wrecking, and a junk yard between 1965 and 2007 and a solid waste transfer facility between 2004 and 2012. Current site use includes vehicle storage and repairs including three in-service 275-gallon ASTs and one out-of-service AST. Although odors and elevated PID readings were detected in fill during the investigation, the Phase II EI did not identify specific impacts associated with historical site use. It is the opinion of the environmental professional that Finding 4 represents a BER. It is the opinion of the environmental professional that undocumented USTs may be present beneath the site or sidewalk adjacent to the site. Therefore, Finding 5 represents a business environmental risk.

13.0 CONCLUSIONS

Langan has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of a ±56,200 square foot site located at 213 Meadow Street, Brooklyn, Kings County, New York, the subject property. Any exceptions to, or deletions from, this practice are described in Section 11.0 of this report.

Based on information obtained during the visual inspection of the subject property, review of environmental databases and historic information, and contact with federal/state/local official agencies, this assessment has revealed the following recognized environmental conditions (RECs) in connection with the property:

Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent RECs:

Presence of Contaminated Urban Fill

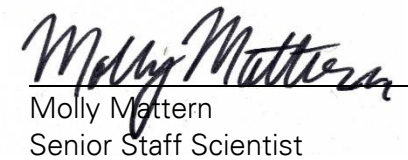
Based on the findings of the 2022 Phase II EI, contaminated fill impacted with elevated concentrations of metals and SVOCs above the NYSDEC Soil Cleanup Objectives is present in the subsurface at the subject property. Odors and elevated PID readings were also detected, suggesting contamination may be present that was not found during the initial Phase II EI or that weathered petroleum contamination and nuisance soil conditions are present. The presence of fill material will require implementation of soil handling and management procedures to address excavation, reuse, handling, and possible offsite disposal of this material during site redevelopment. The presence of contaminated fill represents a REC.

14.0 QUALIFICATIONS / CERTIFICATION

The following professionals assisted in the completion of this report.

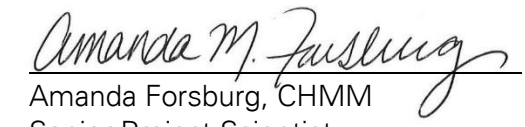
We, the undersigned, declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property as documented in Appendix H. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Site Inspection Completed By:



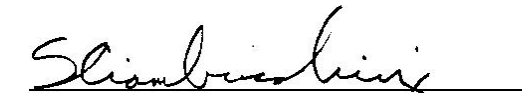
Molly Mattern
Senior Staff Scientist

Report Written By:



Amanda Forsburg, CHMM
Senior Project Scientist

Report Reviewed By:



Steven Ciambruschini, P.G., L.E.P.
Senior Principal / Senior Vice President

\\langan.com\data\PAR\data2\100964202\Project Data_Discipline\Environmental\Reports\2022-03 - Phase I ESA\213 Meadow Street Phase I ESA (FINAL 2022-03-11).docx

TABLES

TABLE 1
TABLE OF CONTACTS

Federal

United States Environmental Protection Agency
Region 2 (NJ, NY, PR, VI)
https://foiaonline.regulations.gov/foia/action/public/home

United States Fish and Wildlife Service
https://ecos.fws.gov/ipac/gettingStarted/map

State

New York State Department of Environmental Conservation – Region II
http://www.dec.ny.gov/public/103696.html

Records Access Office
New York State Department of Health
Corning Tower, Room 2364
Albany, New York 12237-0044
foil@health.ny.gov

The New York Natural Heritage Program
http://www.dec.ny.gov/gis/erm/
http://nynhp.org/ProjectScreening

City

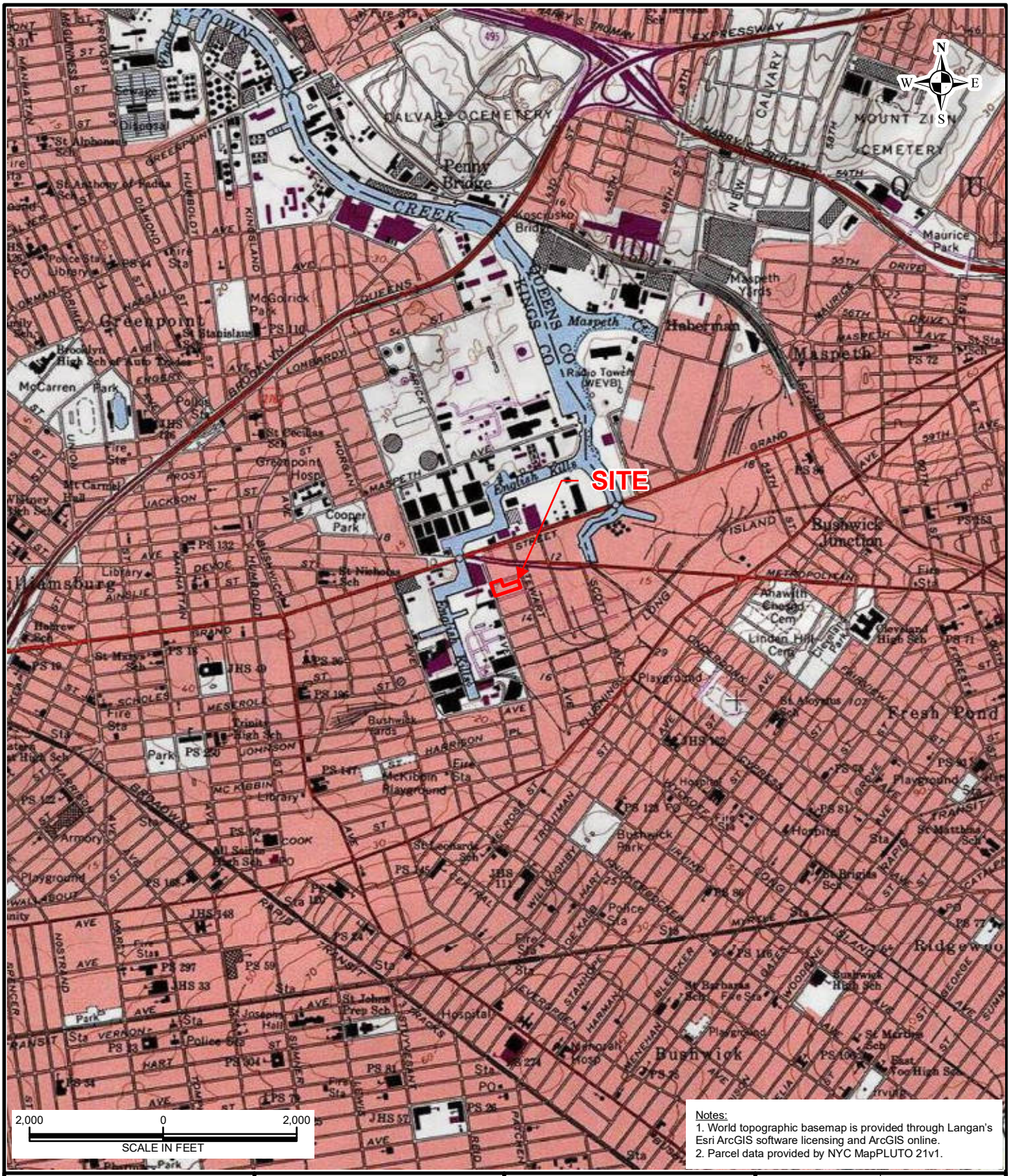
New York City Mayor's Office of Environmental Coordination
http://www.nyc.gov/html/oec/html/ceqr/ceqr_access.shtml

New York City Department of Environmental Protection
http://www.nyc.gov/html/dep/html/contact_us/foil.shtml

Ms. Renee Bryant, Records Access Officer
New York City Department of Health and Mental Hygiene
Gotham Center
42-09 28th Street, 14th Floor, CN31
Long Island City, NY 11101
recordsaccess@health.nyc.gov

Ms. Leslie Ifill
Fire Department of New York City
FDNY Bureau of Legal Affairs
Public Records Unit
9 MetroTech Center, 4th Floor
Brooklyn, NY 11201

FIGURES



Notes:
1. World topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online.
2. Parcel data provided by NYC MapPLUTO 21v1.

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com

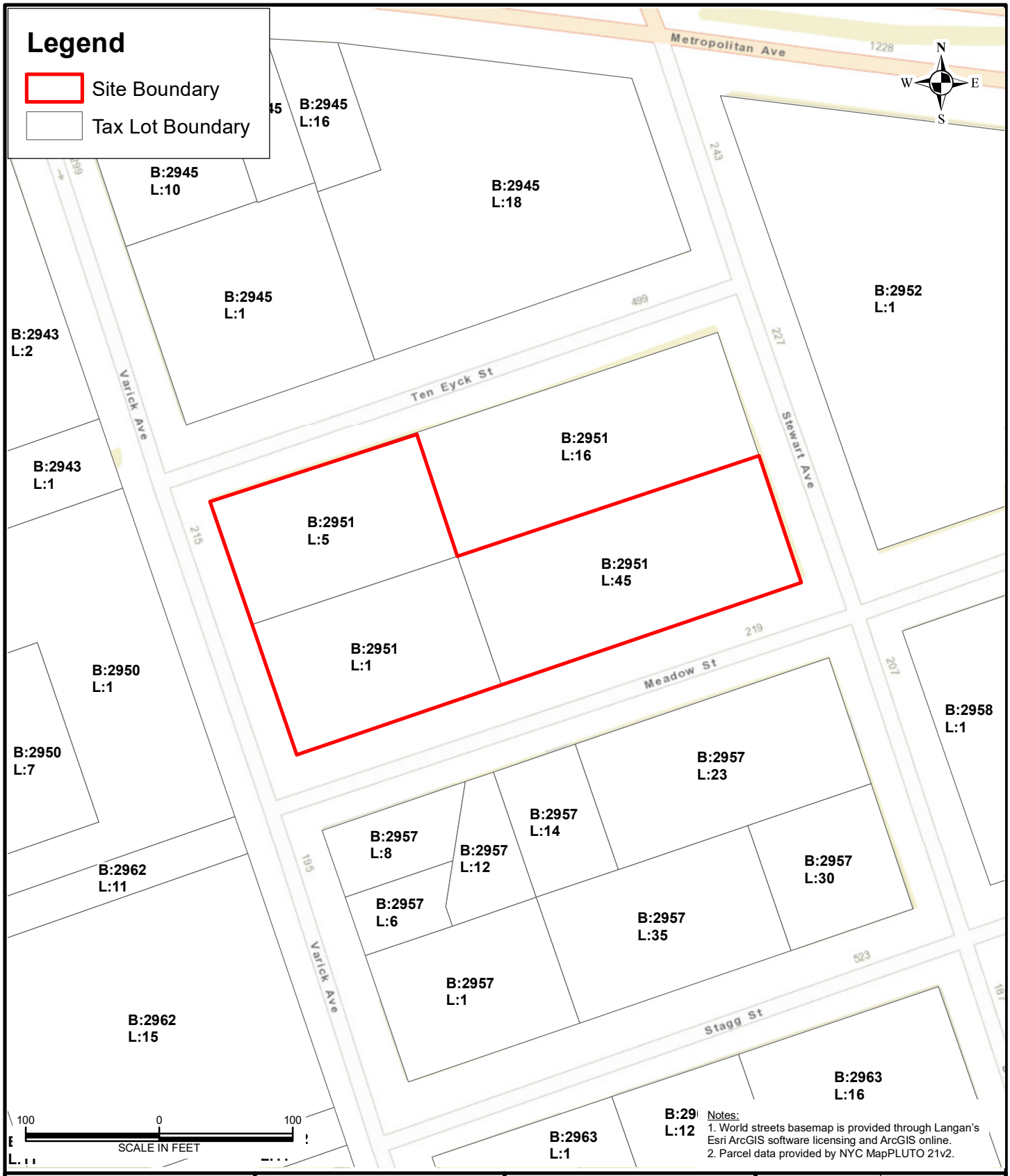
Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC
Collectively known as Langan

NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	213 MEADOW STREET BROOKLYN NEW YORK
Drawing Title	SITE LOCATION MAP
Project No.	100964201
Date	2/22/2022
Scale	1" = 2,000'
Drawn By	IHB
Last Revised	
Figure	1

© 2017 Langan

Path: \\langan.com\data\PAR\data2\100964201\Project Data\ArcGIS\MXD\Environmental_Figures\Figure 1 - Site Location Map.mxd

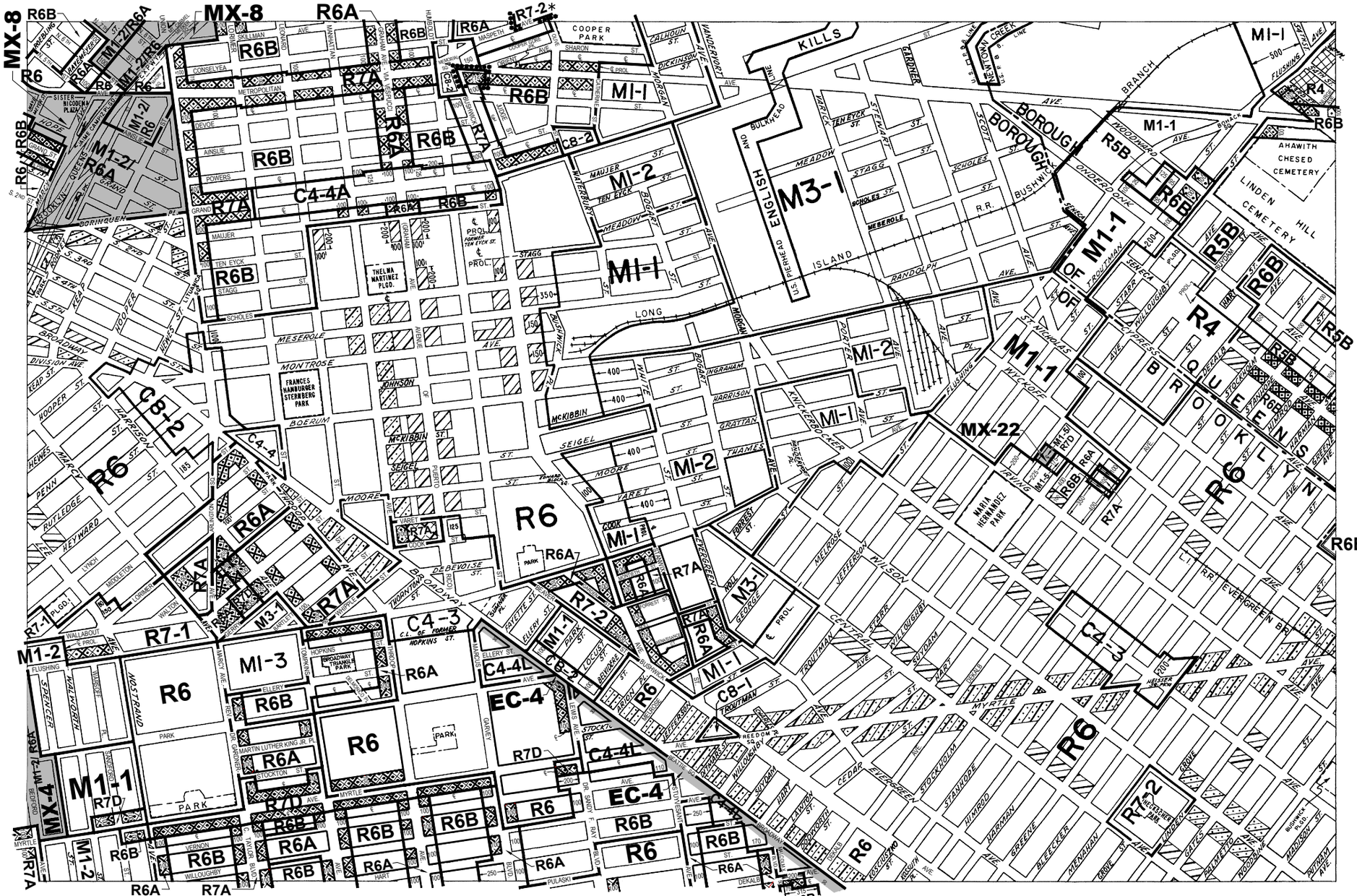


LANGAN
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	213 MEADOW STREET BROOKLYN NEW YORK
Drawing Title	TAX MAP
Project No.	100964201
Date	3/1/2022
Scale	1" = 100'
Drawn By	IHB
Last Revised	
Figure	2

© 2017 Langan

Path: \\langan.com\data\PAR\data2\100964201\Project Data\ArcGIS\MXD\Environmental_Figures\10.5\Figure 2 - Tax Map.mxd


MX-8
R6B
R6A
R7-2*
M1-2/R6A
M1-2/R6
R6
R7A
R6B
M1-1
M1-2
R6A
C4-4A
C8-2
C4-4
C4-3
C4-4L
EC-4
R7D
R7-1
R6
M1-3
M3-1
M1-4/R7A
MX-4
M1-2
R7A
R6A
R6B
R7-2
R7A
M1-1
R7D
R6
R6B
R6A
R7A
R6B
R6A
R6B
R6A
R6B
R6

APPENDIX A

USER QUESTIONNAIRE

LANGAN

ASTM PRACTICE E 1527-13: USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* offered under CERCLA. Missing or incomplete information could result in a determination that "all appropriate inquiry" is not complete.

General Information

User/Client Name (s): GO Quay LLC

Property Name: 213 Meadow Street, Brooklyn, NY

Address: 213 Meadow Street, Brooklyn, NY

Block 2591; Lot 1, 5, and 45

Property Type: Storage Facility

Type of Property Transaction:

- Purchase of property ☐
- Financing of property ☐
- Sale of property ☐
- Ground Lease ☐
- Build to Suit Lease ☐
- Other Development for purposes of conveyance of new facility / ground lease

Reason Why Phase I ESA is required: Due diligence

Site Contact (s): Daniel Colasuonno

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

	Yes	No
(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25). Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?	☐	☒
(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?	☐	☒

LANGAN

	Yes	No
(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).		
Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	☐	☒
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).	**Yes**	**No**
(a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☒	☐
(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☐
(c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment.		
(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30).	**Yes**	**No**
Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example,	☐	☒
(a.) Do you know the past uses of the property?	☐	☐
(b.) Do you know of specific chemicals that are present or once were present at the property?	☐	☐
(c.) Do you know of spills or other chemical releases that have taken place at the property?	☐	☐
(d.) Do you know of any environmental cleanups that have taken place at the property?	☐	☐
(6.) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate Investigation (40 CFR 312.31).	**Yes**	**No**
Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: Simeon Maleh

Print/Type Name: Simeon Maleh

Title: Executive Vice President, Development

Company: Gotham Organization

Date: 3/4/2022

APPENDIX B

PROPERTY OWNER / OPERATOR / KEY SITE MANAGER QUESTIONNAIRE

LANGAN

ASTM PRACTICE E 1527-13:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Project Location/Address: _____

_____

_____

ASTM E-1527-13, Section 9.4

Are you aware of any of the following located on the subject property:

Pits, Ponds, or Lagoons?	**Yes** ☐ **No** ☐
Stained Soil or Pavement?	**Yes** ☐ **No** ☐
Stressed Vegetation?	**Yes** ☐ **No** ☐
Solid Waste (including trash, construction debris, or demolition debris)?	**Yes** ☐ **No** ☐
Wastewater or Discharges into Drains, Ditches, Underground Injection System, or Stream?	**Yes** ☐ **No** ☐
Wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells)?	**Yes** ☐ **No** ☐
Septic Systems or Cesspools?	**Yes** ☐ **No** ☐

ASTM E-1527-13, Section 10.9

Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	**Yes** ☐ **No** ☐
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	**Yes** ☐ **No** ☐
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	**Yes** ☐ **No** ☐

ASTM E-1527-13, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	☐	☐	☐
Environmental compliance audit reports	☐	☐	☐
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☐	☐	☐
Registrations for underground and aboveground storage tanks	☐	☐	☐
Material safety data sheets	☐	☐	☐
Community-right-to-know plan	☐	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, facility response plan, etc.	☐	☐	☐
Reports regarding hydrogeologic conditions on the property or surrounding area	☐	☐	☐
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☐	☐	☐
Hazardous waste generator notices or reports	☐	☐	☐
Geotechnical studies	☐	☐	☐
Risk Assessments	☐	☐	☐
Recorded Activity and Use Limitations	☐	☐	☐
Environmental Cleanup Reports	☐	☐	☐

Do you have contact information for the prior owner of the property? **Yes** ☐ **No** ☐
If yes, please provide information below:

Prior Owner's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☐
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☐
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☐ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: _____

Address: _____

_____

Signature: _____ Date: _____

APPENDIX C

SANBORN MAPS

213 Meadow Street

213 Meadow Street

Brooklyn, NY 11237

Inquiry Number: 6826547.3

January 20, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/20/22

Site Name:

213 Meadow Street
213 Meadow Street
Brooklyn, NY 11237
EDR Inquiry # 6826547.3

Client Name:

Langan Engineering
300 Kimball Drive, 4th Floor
Parsippany, NJ 07054-2172
Contact: Molly Mattern

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Langan Engineering were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 54F1-4ED2-B780

PO # NA

Project 213 Meadow Street

Maps Provided:

2007	1994	1986	1951
2006	1993	1982	1933
2005	1992	1981	1907
2004	1991	1980	1888
2003	1990	1979	
2002	1989	1977	
2001	1988	1968	
1995	1987	1965	

Sanborn® Library search results

Certification #: 54F1-4ED2-B780

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Langan Engineering (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

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Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets



Volume 9, Sheet 60
2007



Volume 9, Sheet 58
2007

2006 Source Sheets



Volume 9, Sheet 58
2006



Volume 9, Sheet 60
2006

2005 Source Sheets



Volume 9, Sheet 58
2005



Volume 9, Sheet 60
2005

2004 Source Sheets



Volume 9, Sheet 58
2004



Volume 9, Sheet 60
2004

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2003 Source Sheets



Volume 9, Sheet 58
2003

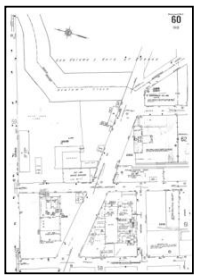


Volume 9, Sheet 60
2003

2002 Source Sheets



Volume 9, Sheet 58
2002



Volume 9, Sheet 60
2002

2001 Source Sheets



Volume 9, Sheet 58
2001



Volume 9, Sheet 60
2001

1995 Source Sheets



Volume 9, Sheet 58
1995



Volume 9, Sheet 60
1995

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1994 Source Sheets



Volume 9, Sheet 58
1994



Volume 9, Sheet 60
1994

1993 Source Sheets



Volume 9, Sheet 58
1993-Jan



Volume 9, Sheet 60
1993-Jan



Volume 9, Sheet 60
1993-Dec

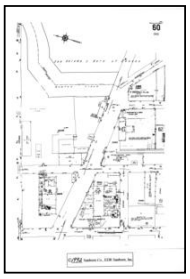


Volume 9, Sheet 58
1993-Dec

1992 Source Sheets



Volume 9, Sheet 58
1992



Volume 9, Sheet 60
1992

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1991 Source Sheets



Volume 9, Sheet 58
1991



Volume 9, Sheet 60
1991

1990 Source Sheets



Volume 9, Sheet 58
1990



Volume 9, Sheet 60
1990

1989 Source Sheets

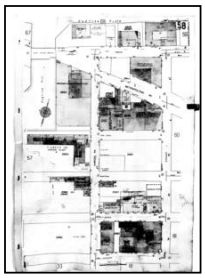


Volume 9, Sheet 58
1989

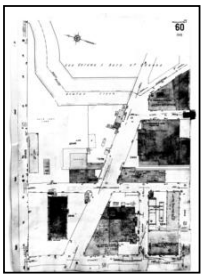


Volume 9, Sheet 60
1989

1988 Source Sheets



Volume 9, Sheet 58
1988



Volume 9, Sheet 60
1988

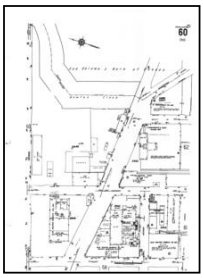
Sanborn Sheet Key

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1987 Source Sheets

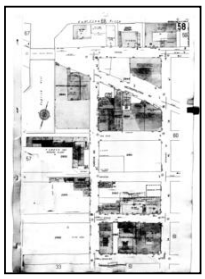


Volume 9, Sheet 58
1987

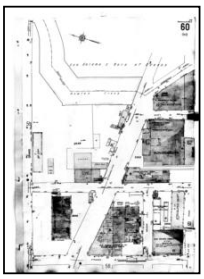


Volume 9, Sheet 60
1987

1986 Source Sheets

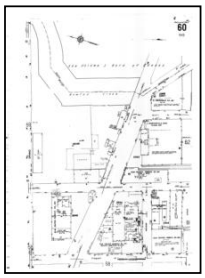


Volume 9, Sheet 58
1986



Volume 9, Sheet 60
1986

1982 Source Sheets



Volume 9, Sheet 60
1982



Volume 9, Sheet 58
1982

1981 Source Sheets



Volume 9, Sheet 58
1981

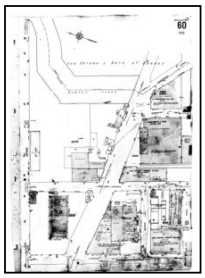


Volume 9, Sheet 60
1981

Sanborn Sheet Key

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1980 Source Sheets



Volume 9, Sheet 60
1980

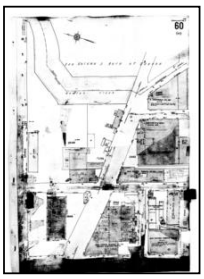


Volume 9, Sheet 58
1980

1979 Source Sheets



Volume 9, Sheet 58
1979



Volume 9, Sheet 60
1979

1977 Source Sheets

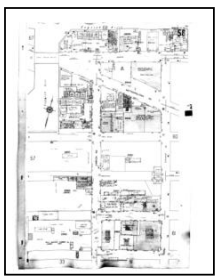


Volume 9, Sheet 58
1977

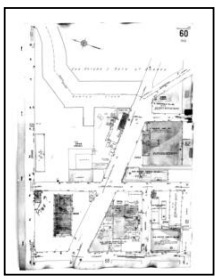


Volume 9, Sheet 60
1977

1968 Source Sheets



Volume 9, Sheet 58
1968



Volume 9, Sheet 60
1968

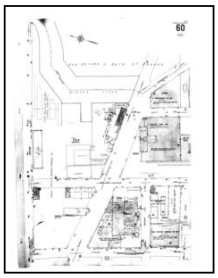
Sanborn Sheet Key

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1965 Source Sheets



Volume 9, Sheet 58
1965

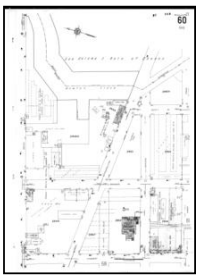


Volume 9, Sheet 60
1965

1951 Source Sheets

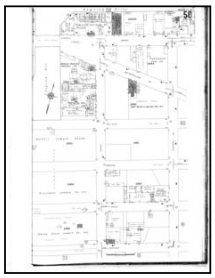


Volume 9, Sheet 58
1951



Volume 9, Sheet 60
1951

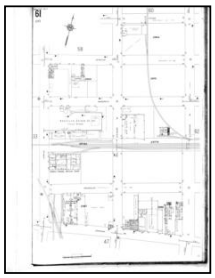
1933 Source Sheets



Volume 9, Sheet 58
1933

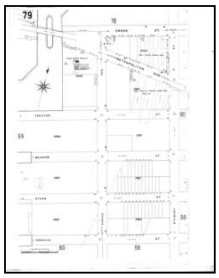


Volume 9, Sheet 60
1933

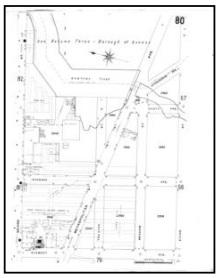


Volume 9, Sheet 61
1933

1907 Source Sheets



Volume 9, Sheet 79
1907



Volume 9, Sheet 80
1907

Sanborn Sheet Key

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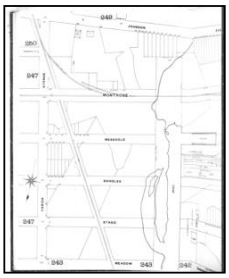
1888 Source Sheets



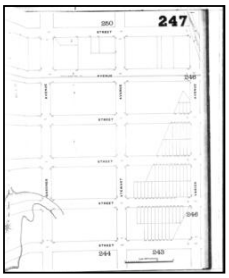
Volume 9, Sheet 243
1888



Volume 9, Sheet 244
1888



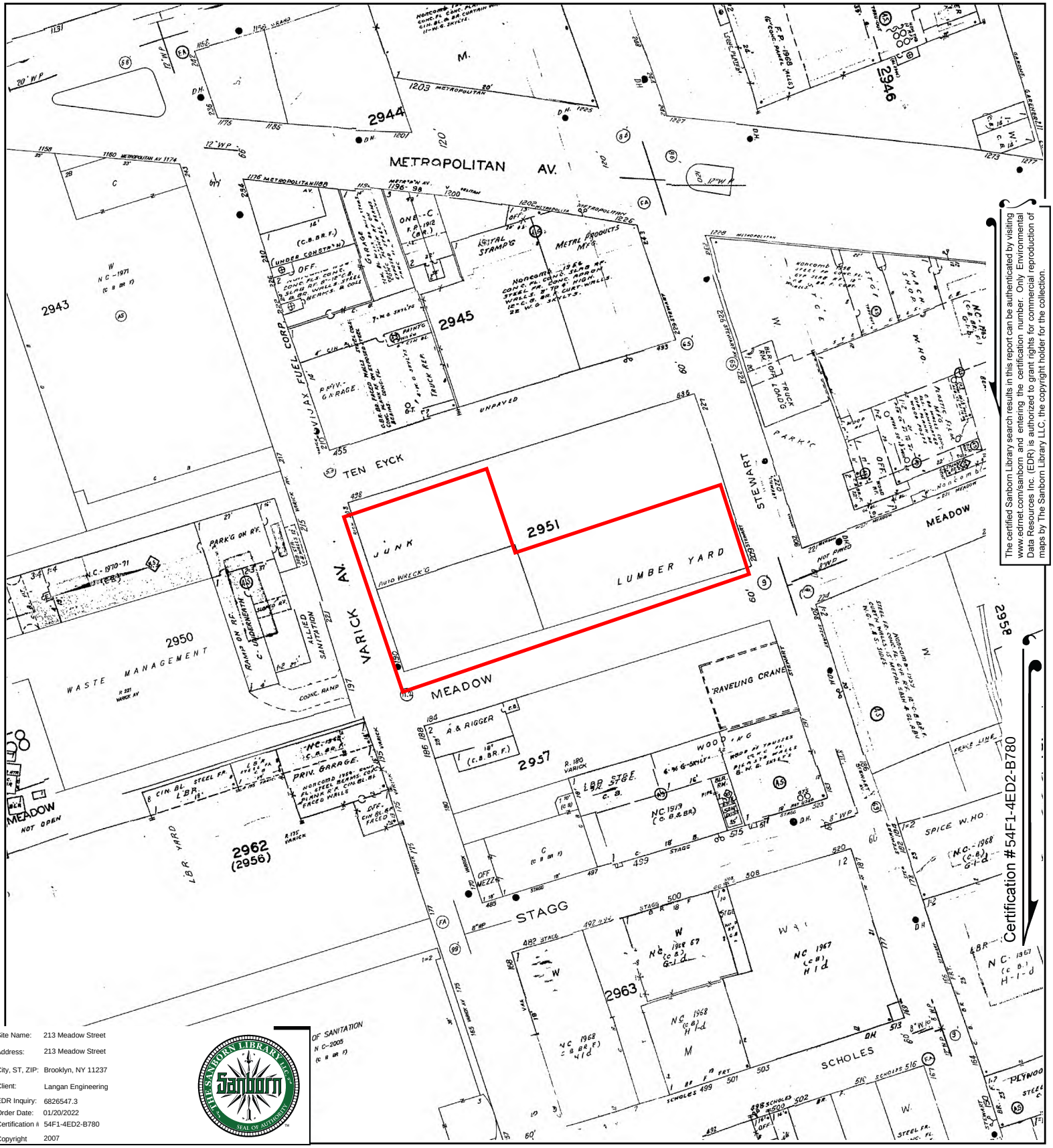
Volume 9, Sheet 246
1888



Volume 9, Sheet 247
1888

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2007



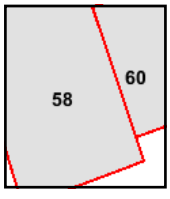
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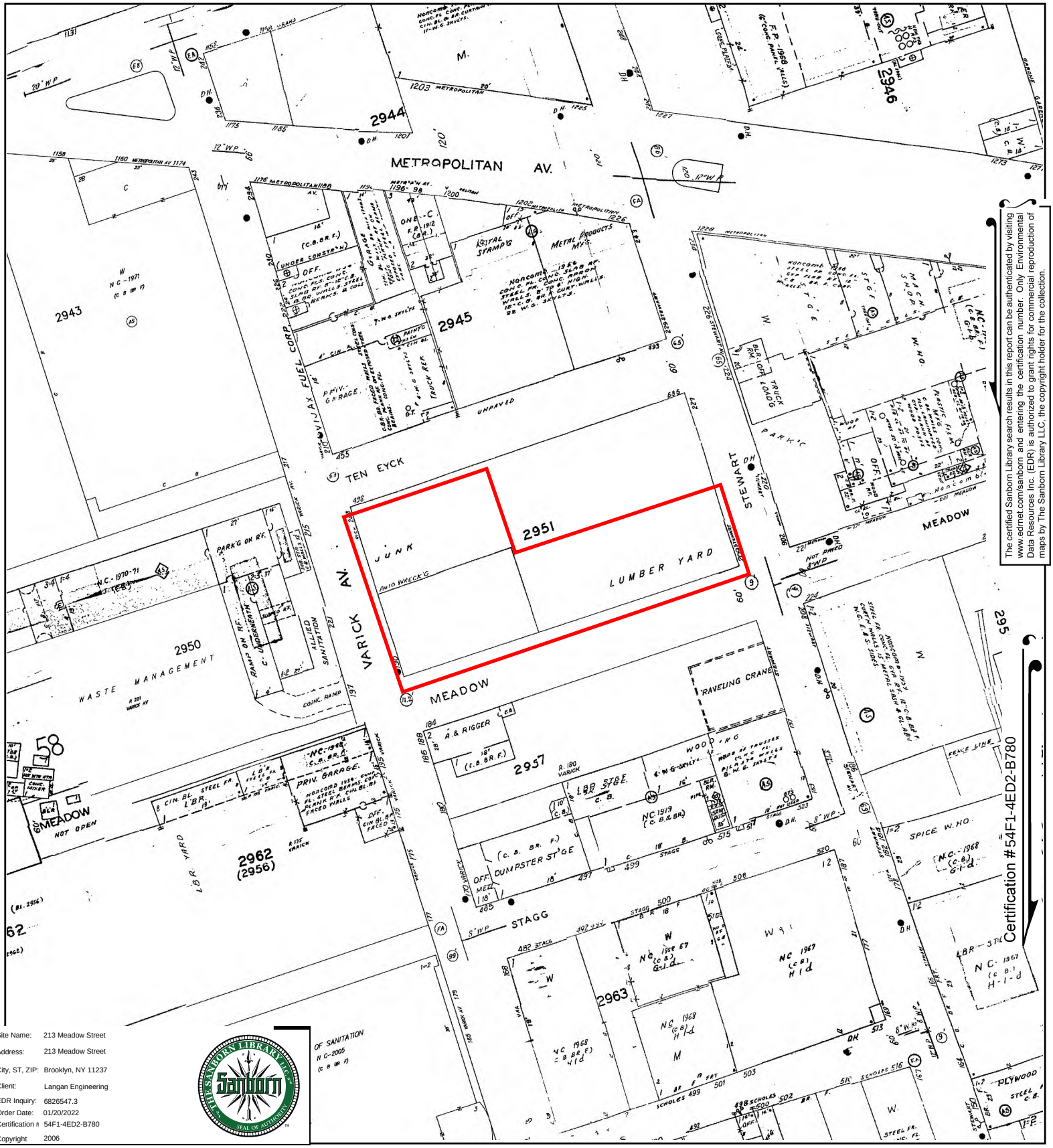
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Volume 9, Sheet 58
Volume 9, Sheet 60

N

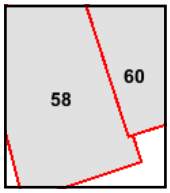


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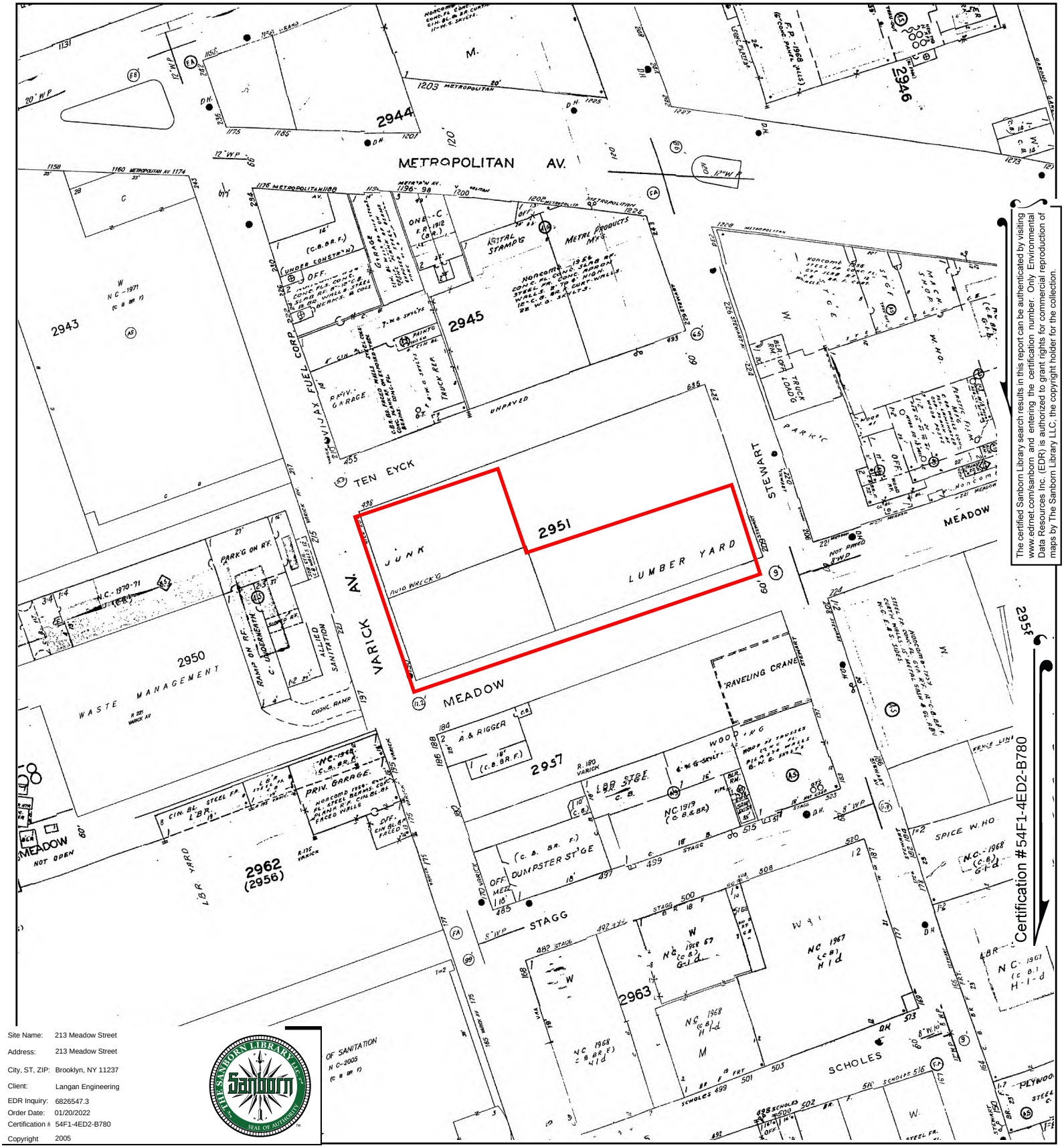




Volume 9, Sheet 60
Volume 9, Sheet 58

0 Feet 150 300 600

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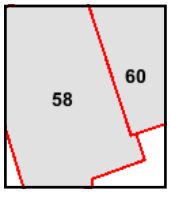


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Copyright	2005

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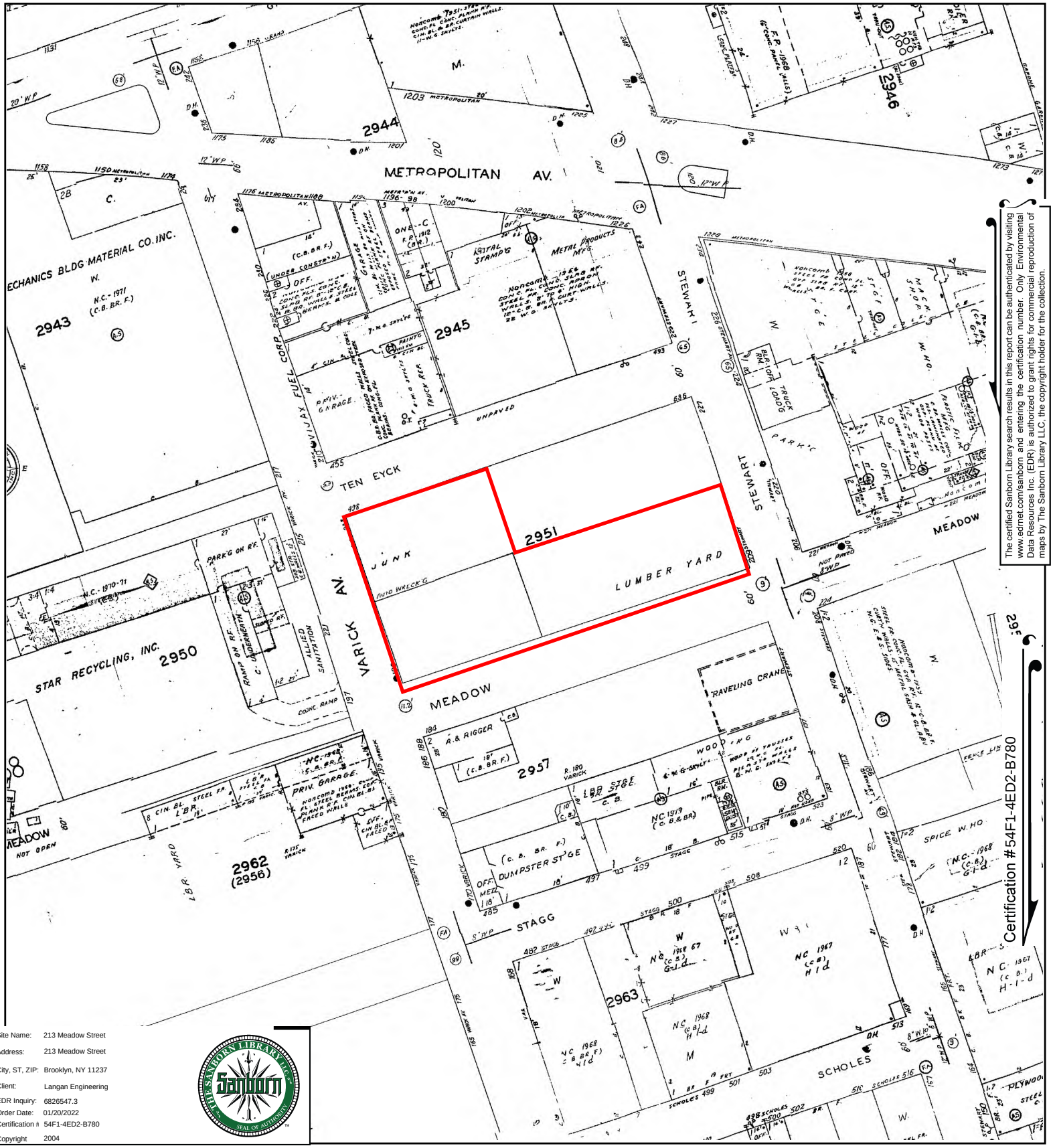




Volume 9, Sheet 60
Volume 9, Sheet 58

0 Feet 150 300 600

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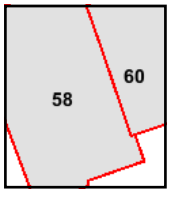


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Copyright	2004

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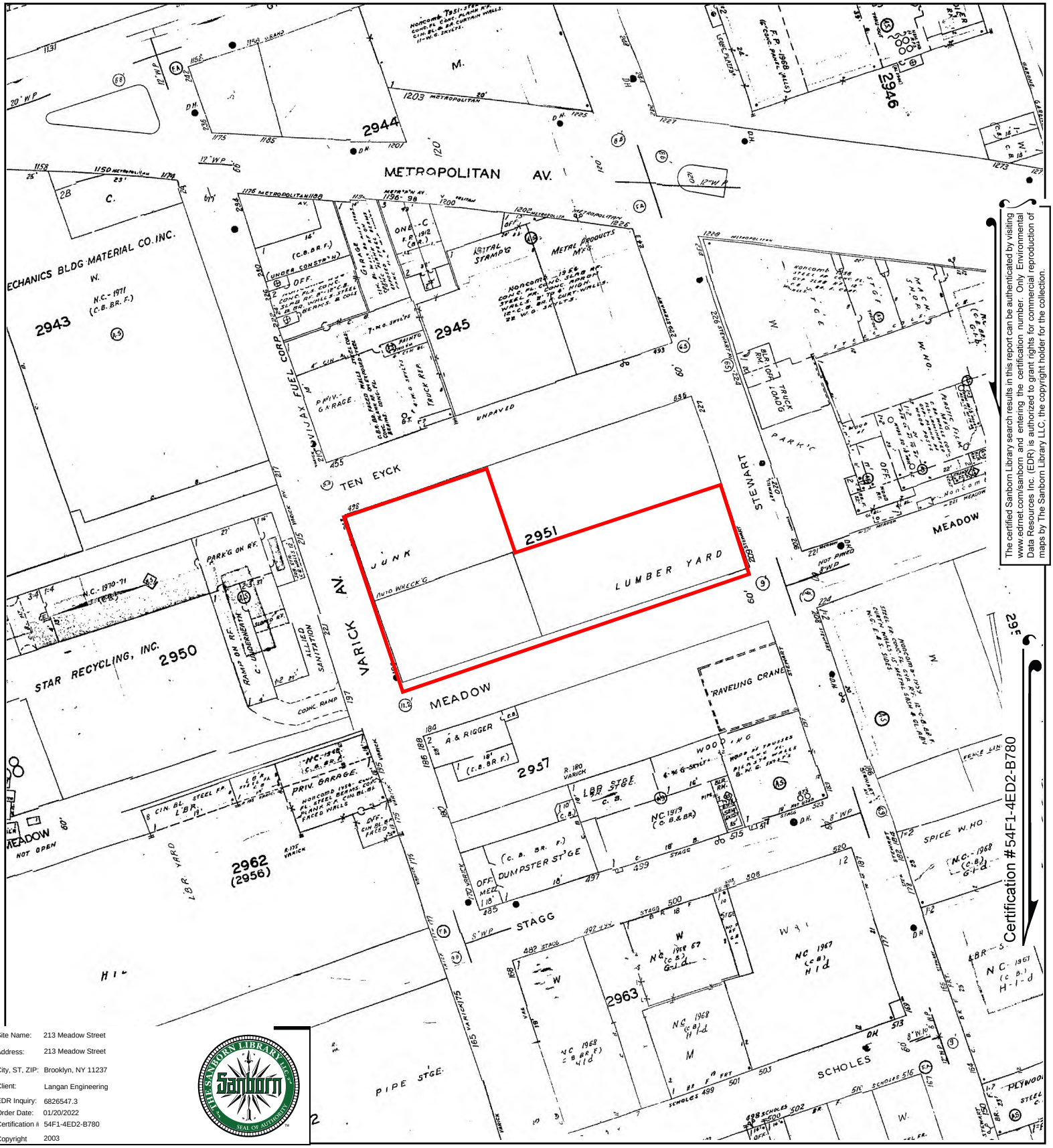




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Volume 9, Sheet 58

0 Feet 150 300 600

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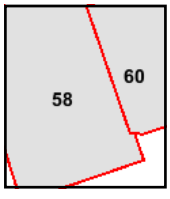


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Copyright	2003

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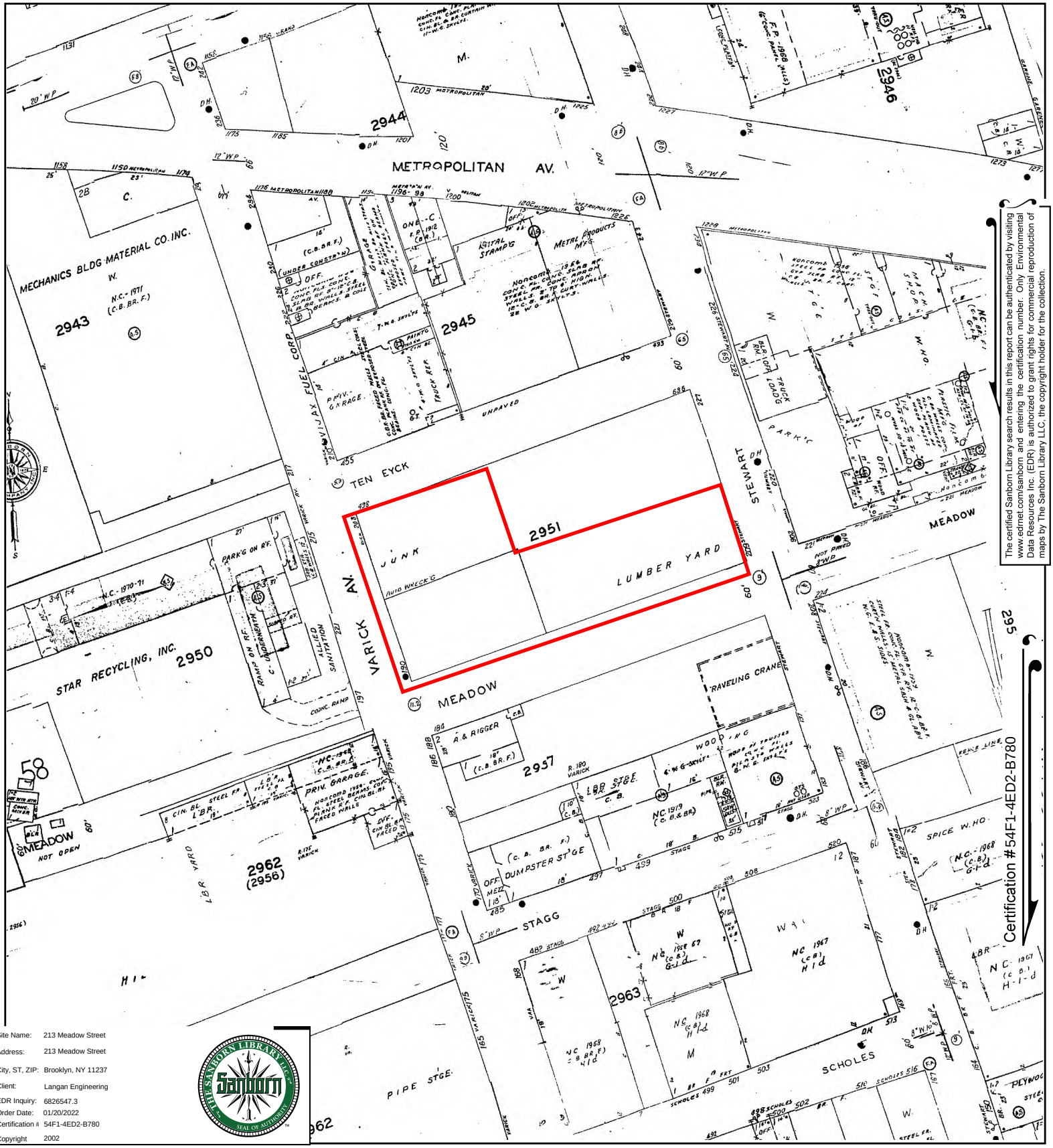




Volume 9, Sheet 60
Volume 9, Sheet 58

0 Feet 150 300 600

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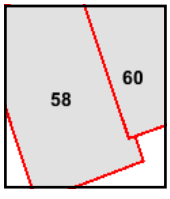


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Copyright	2002

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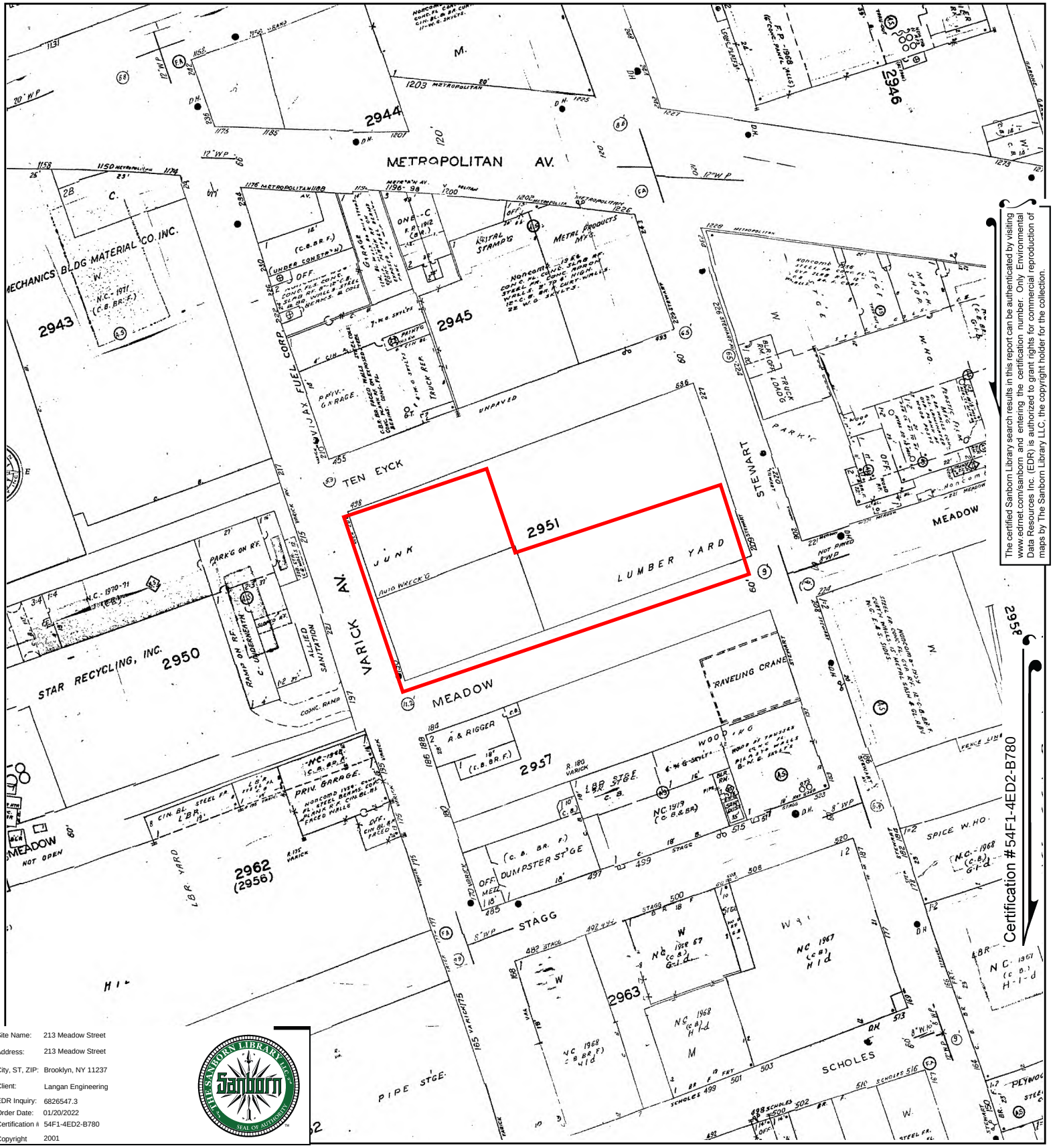




Volume 9, Sheet 60
Volume 9, Sheet 58

0 Feet 150 300 600

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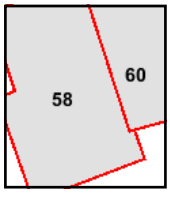


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Copyright	2001

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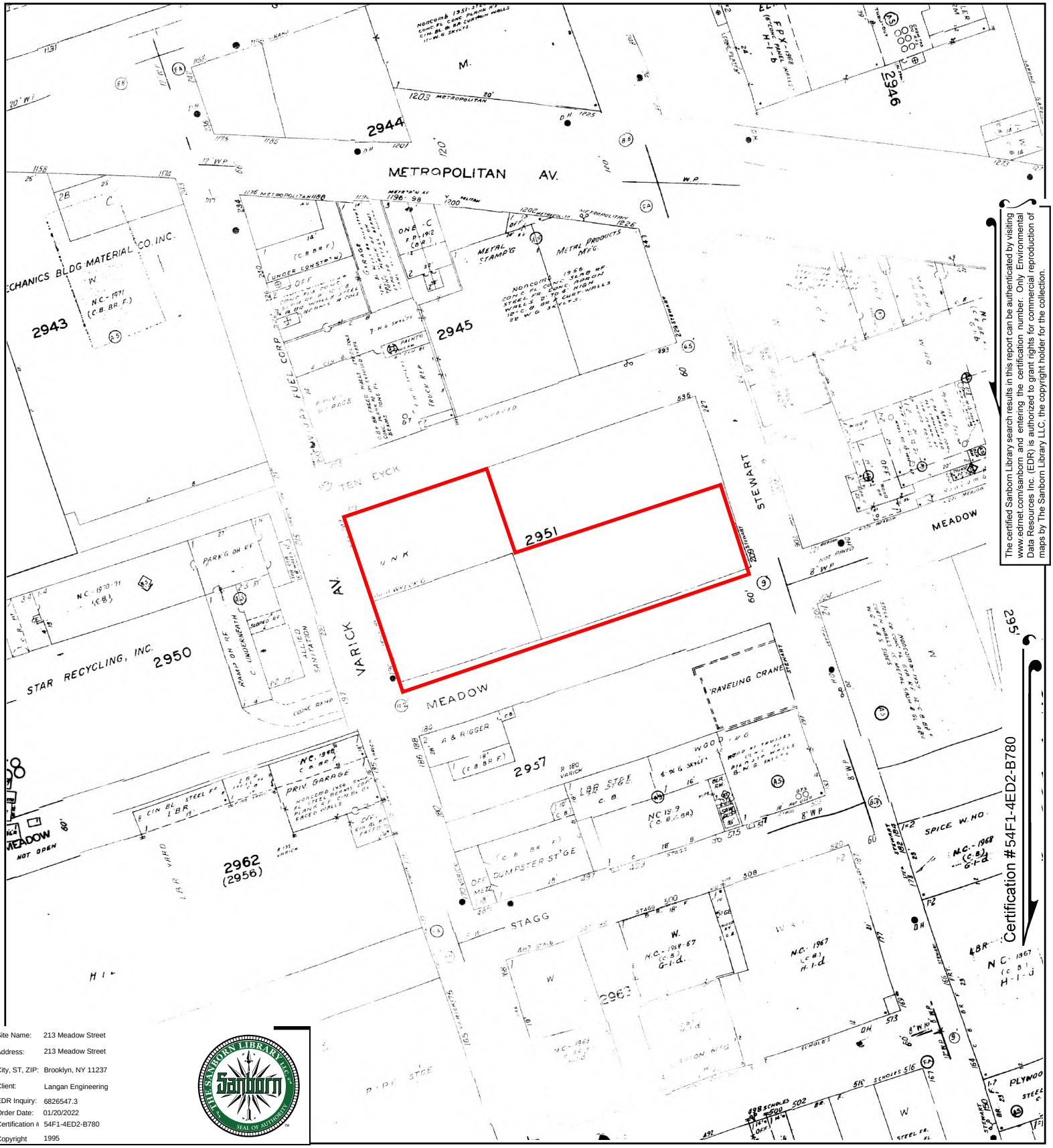




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Volume 9, Sheet 58

0 Feet 150 300 600

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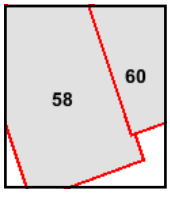


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Copyright	1995

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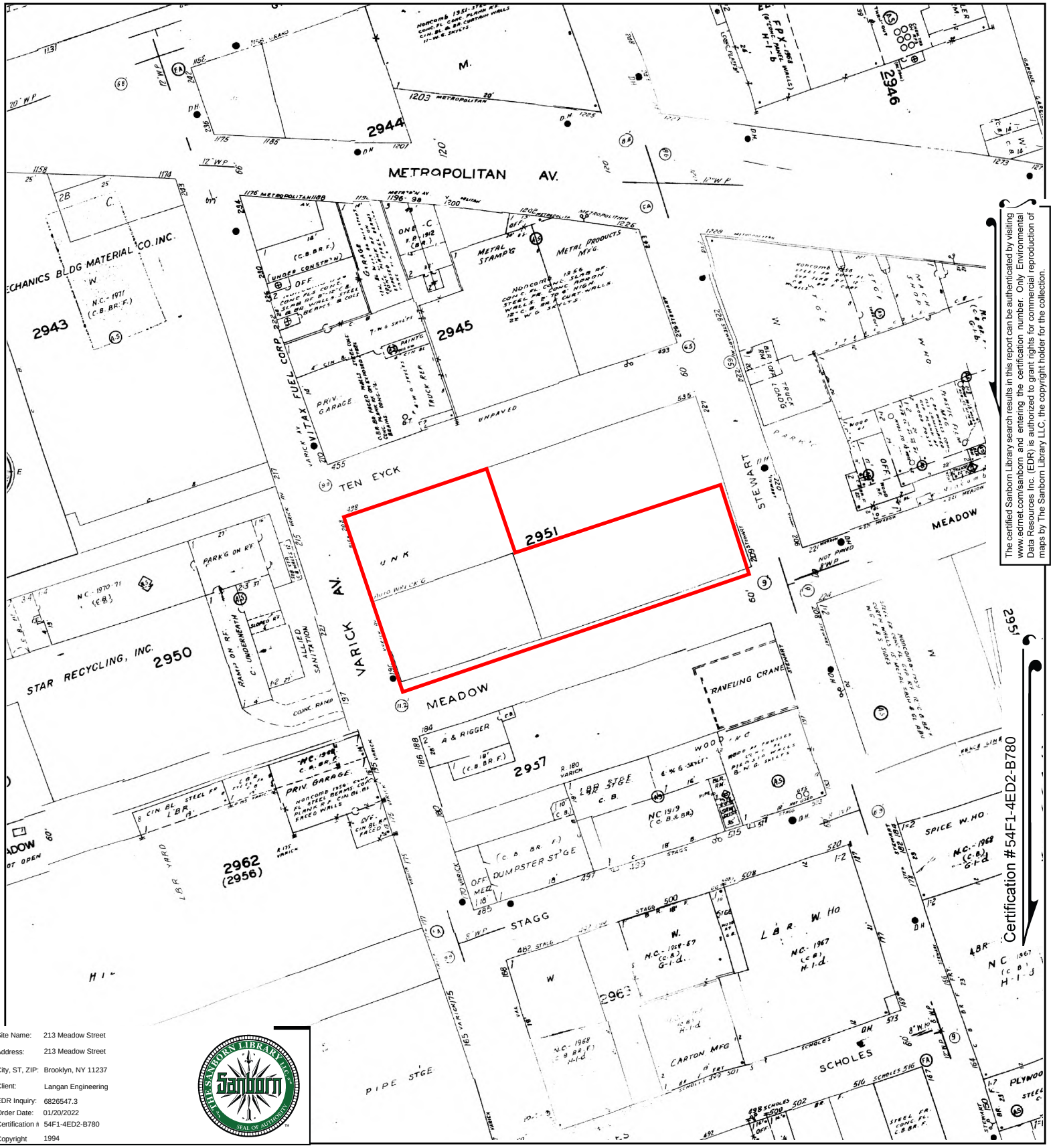
Volume 9, Sheet 60
Volume 9, Sheet 58

0 Feet 150 300 600

N

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1994

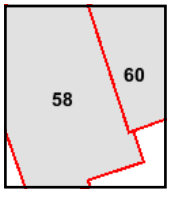


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Copyright	1994

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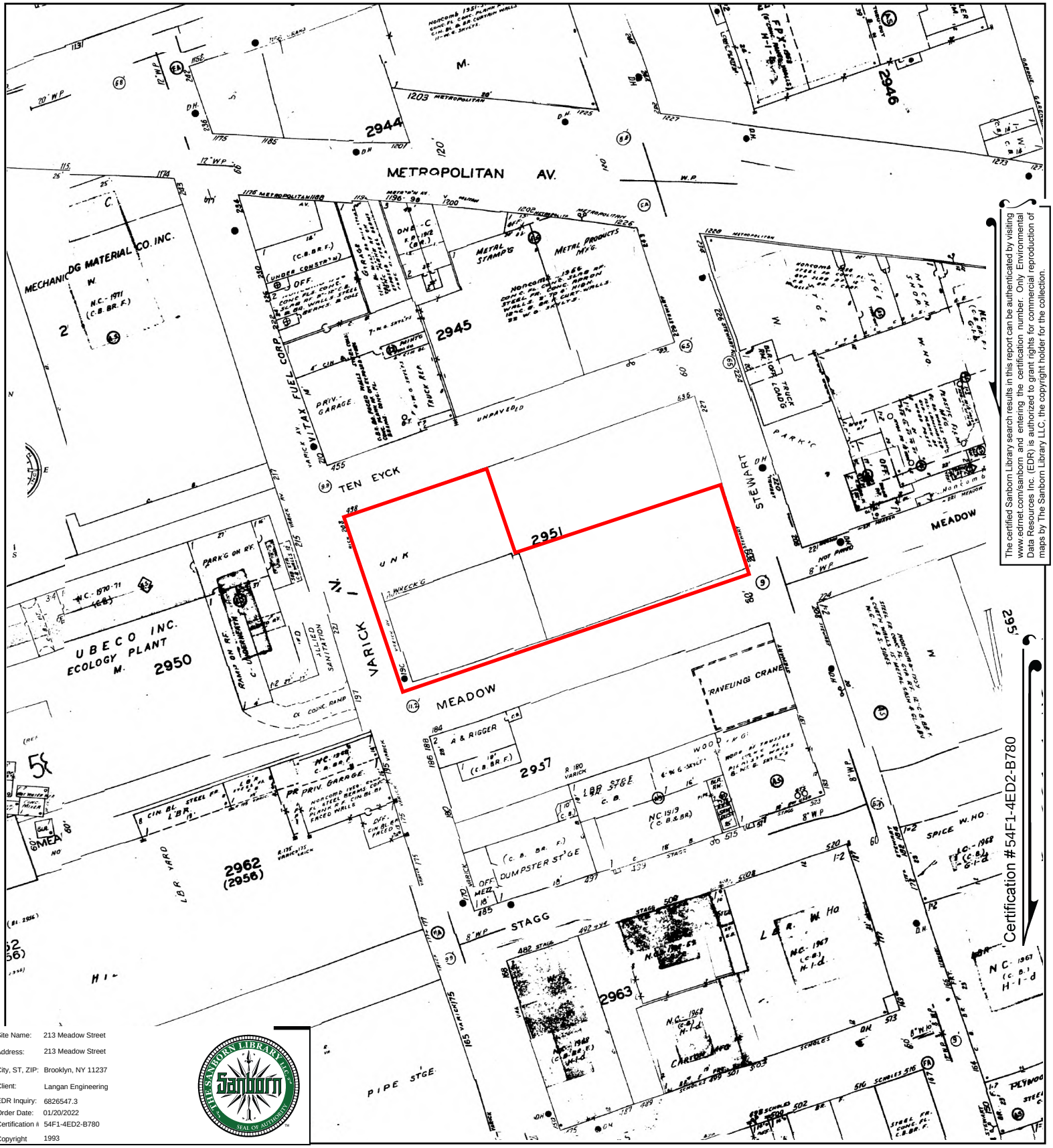




Volume 9, Sheet 60
Volume 9, Sheet 58

0 Feet 150 300 600

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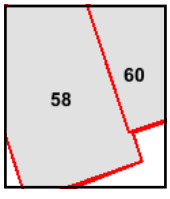


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Copyright	1993

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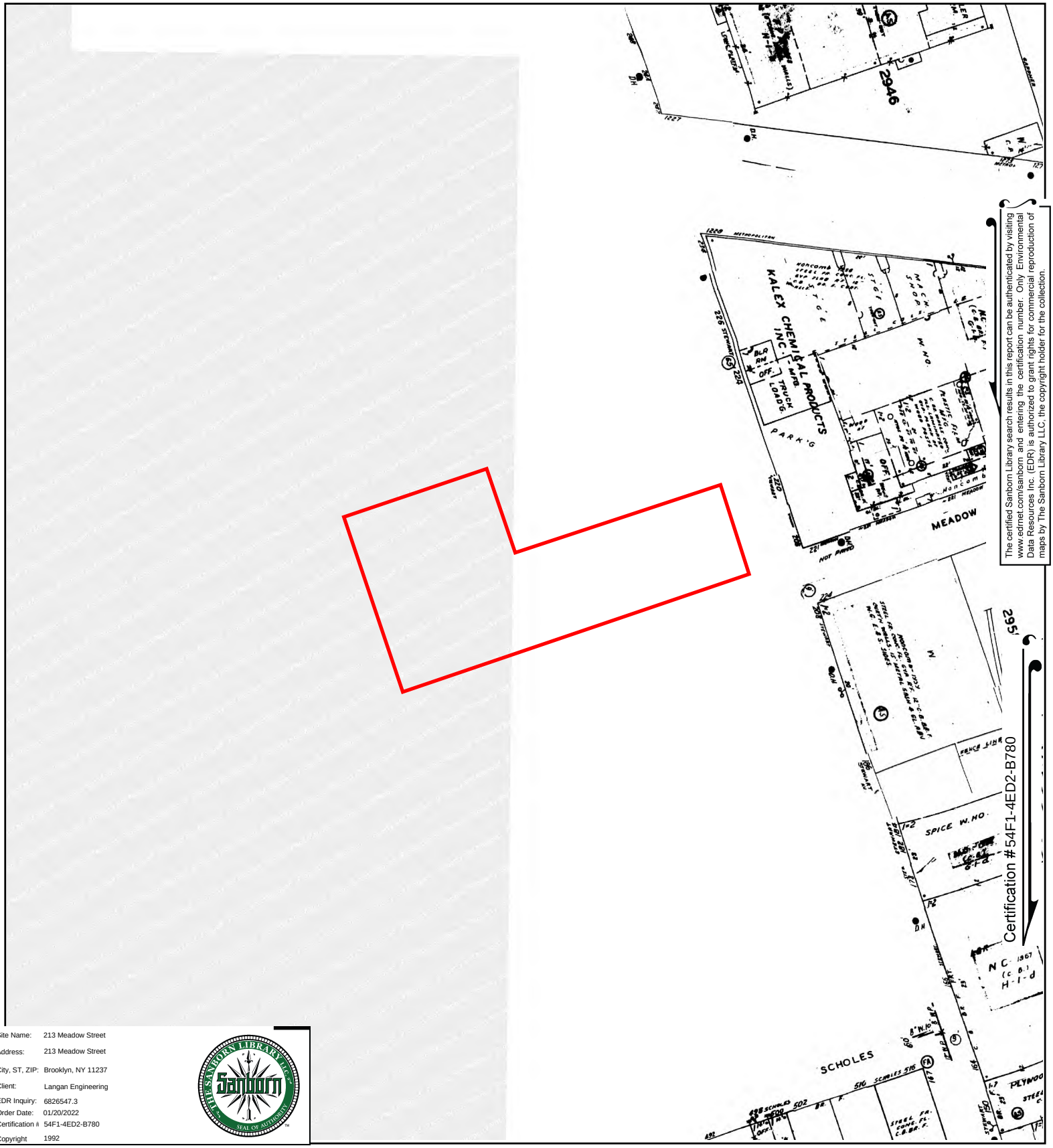




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Volume 9, Sheet 60
Volume 9, Sheet 60
Volume 9, Sheet 58

0 Feet 150 300 600

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Copyright 1992

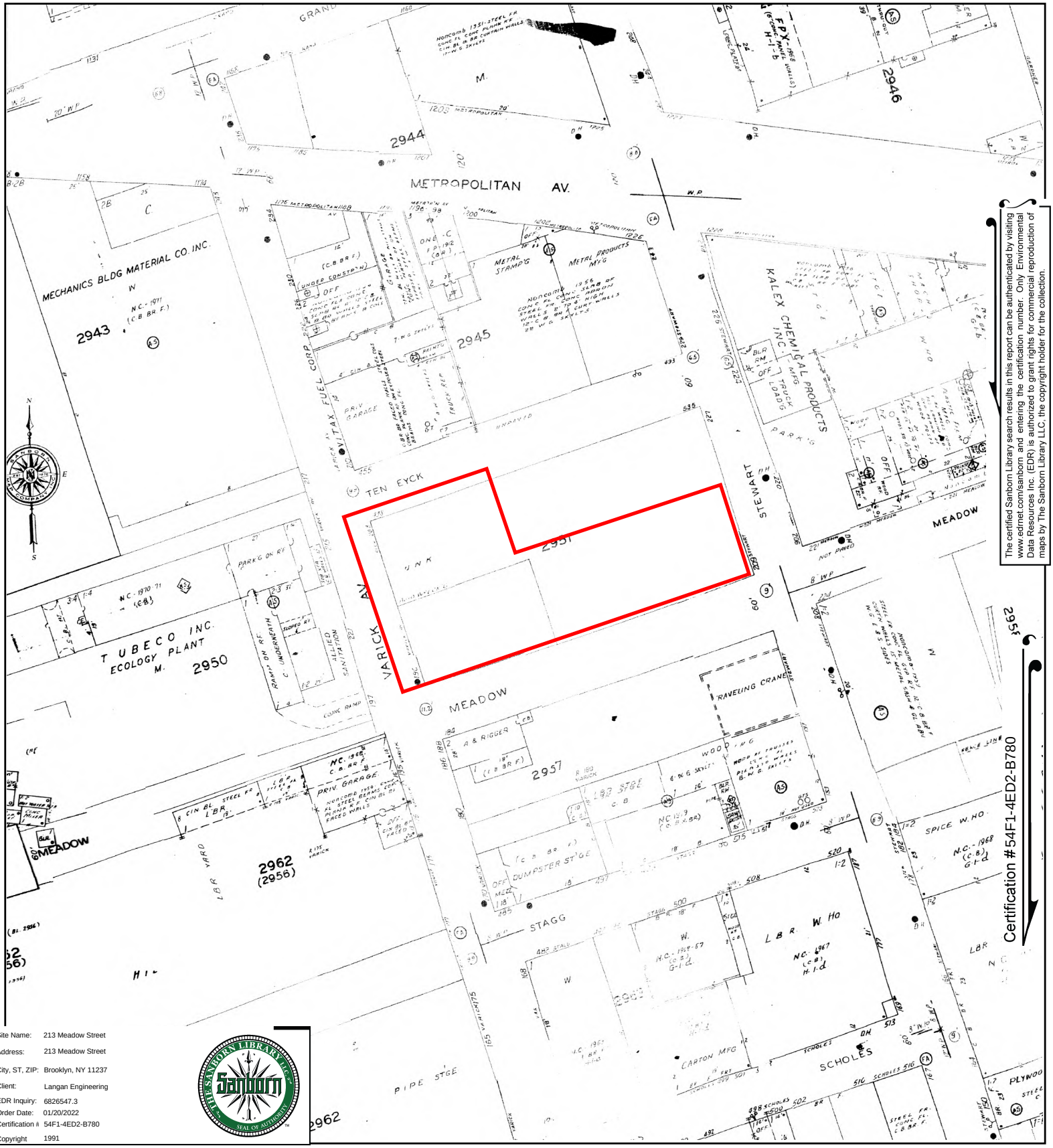
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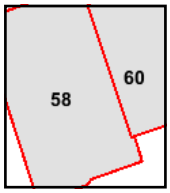
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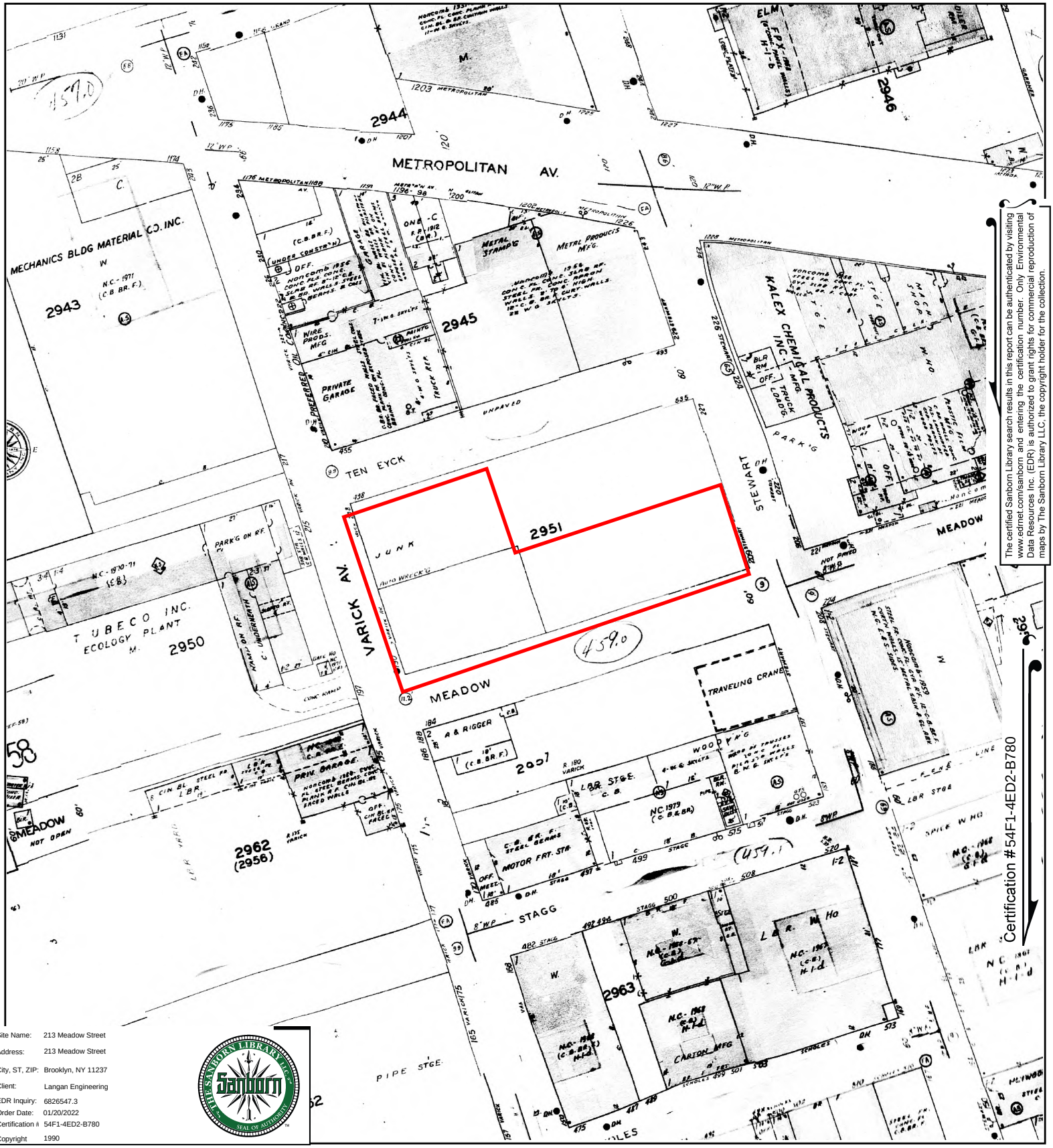
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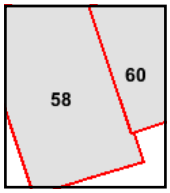
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Copyright	1990

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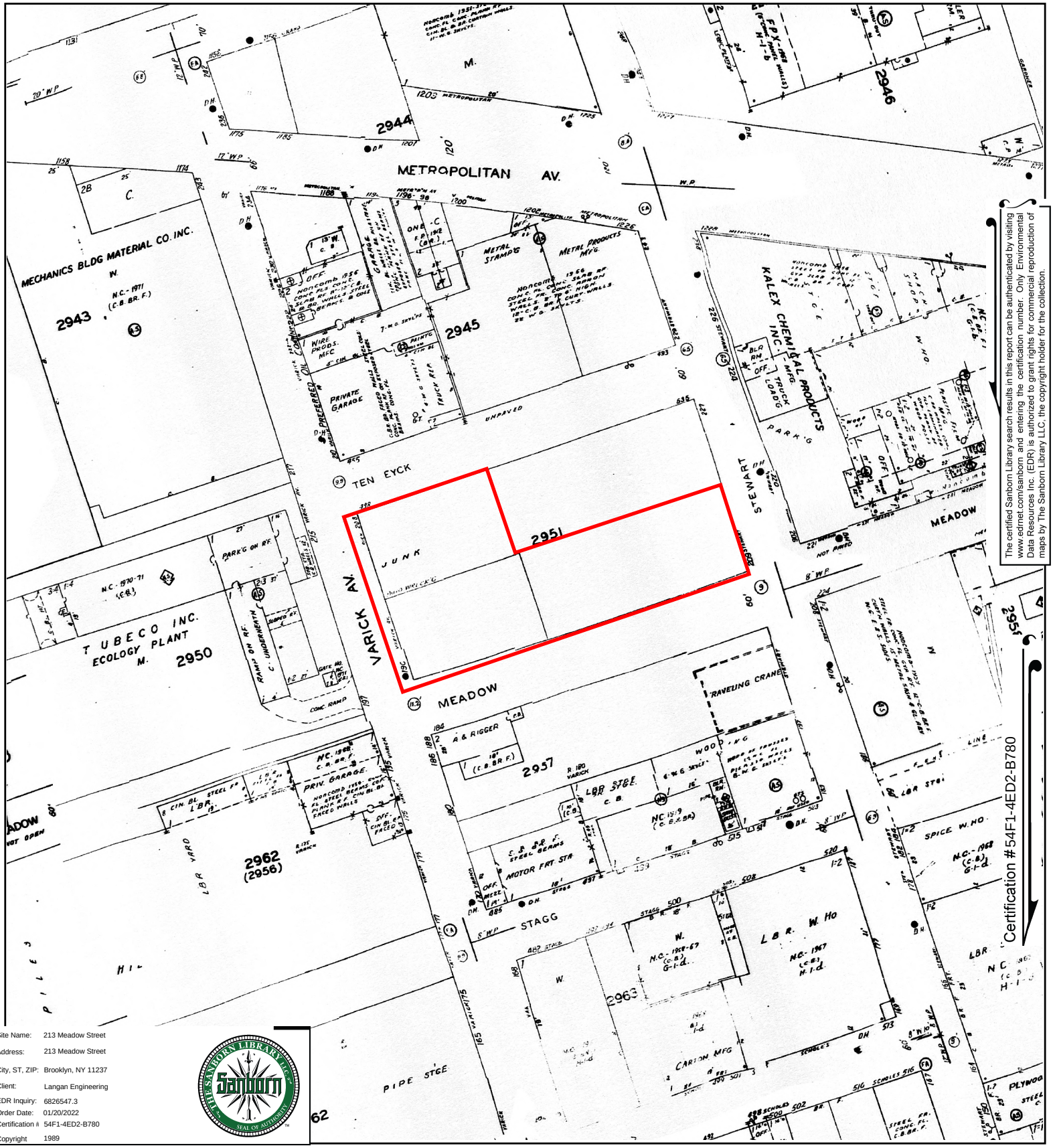




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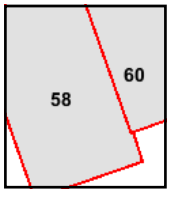


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Copyright	1989

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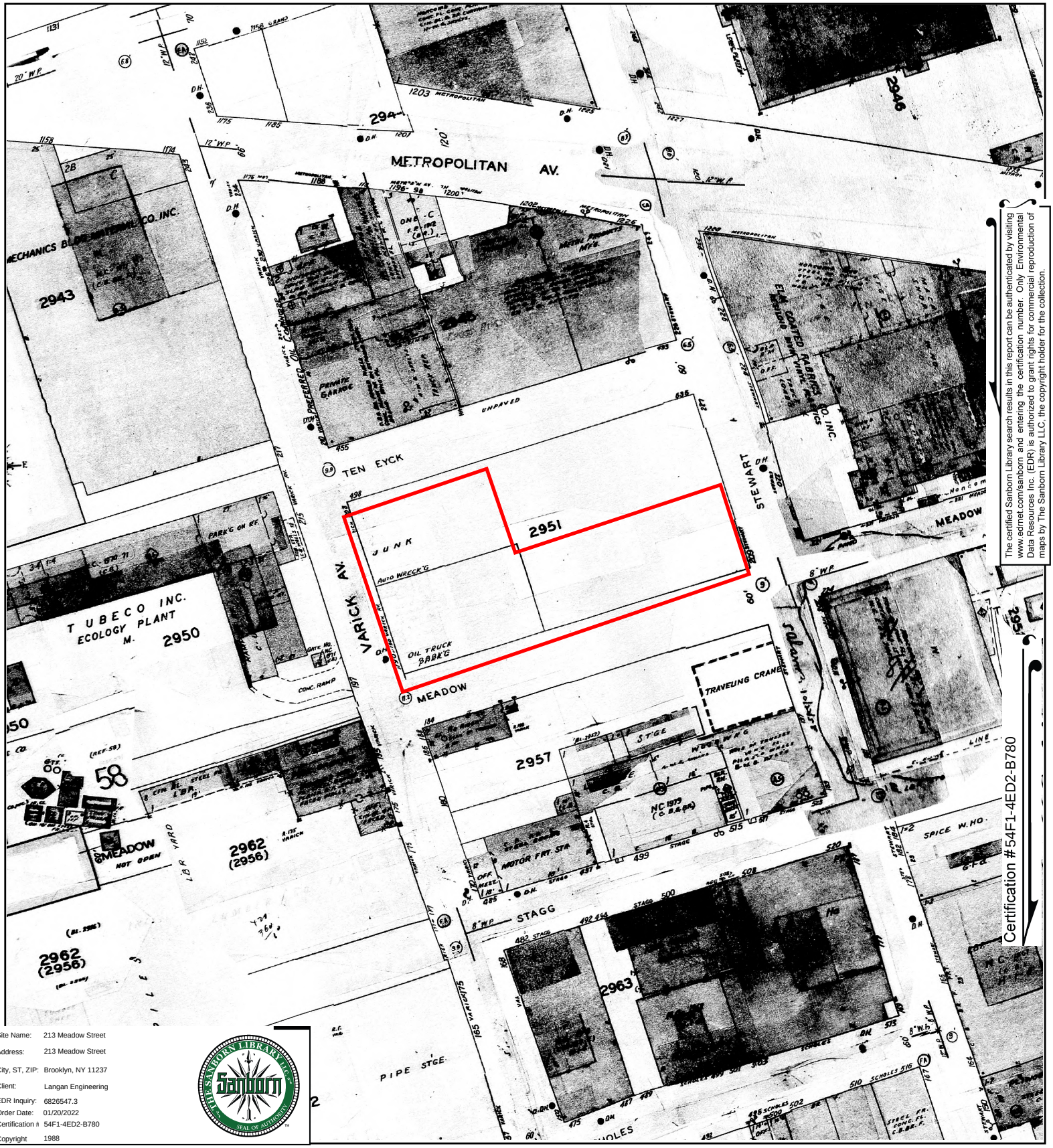




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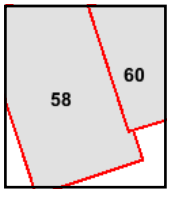
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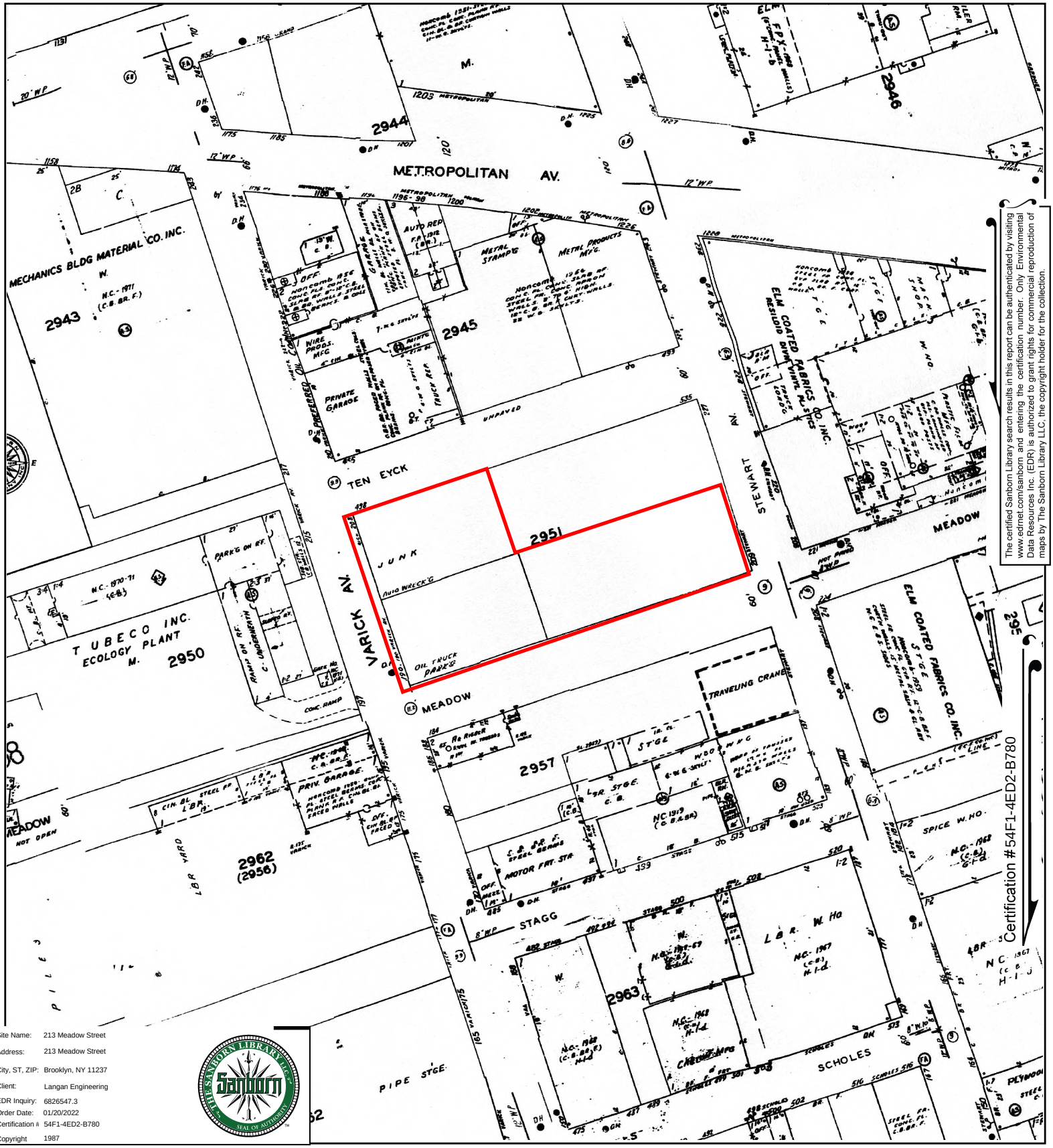




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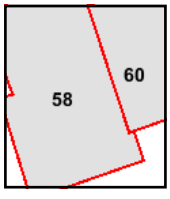
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Copyright	1987

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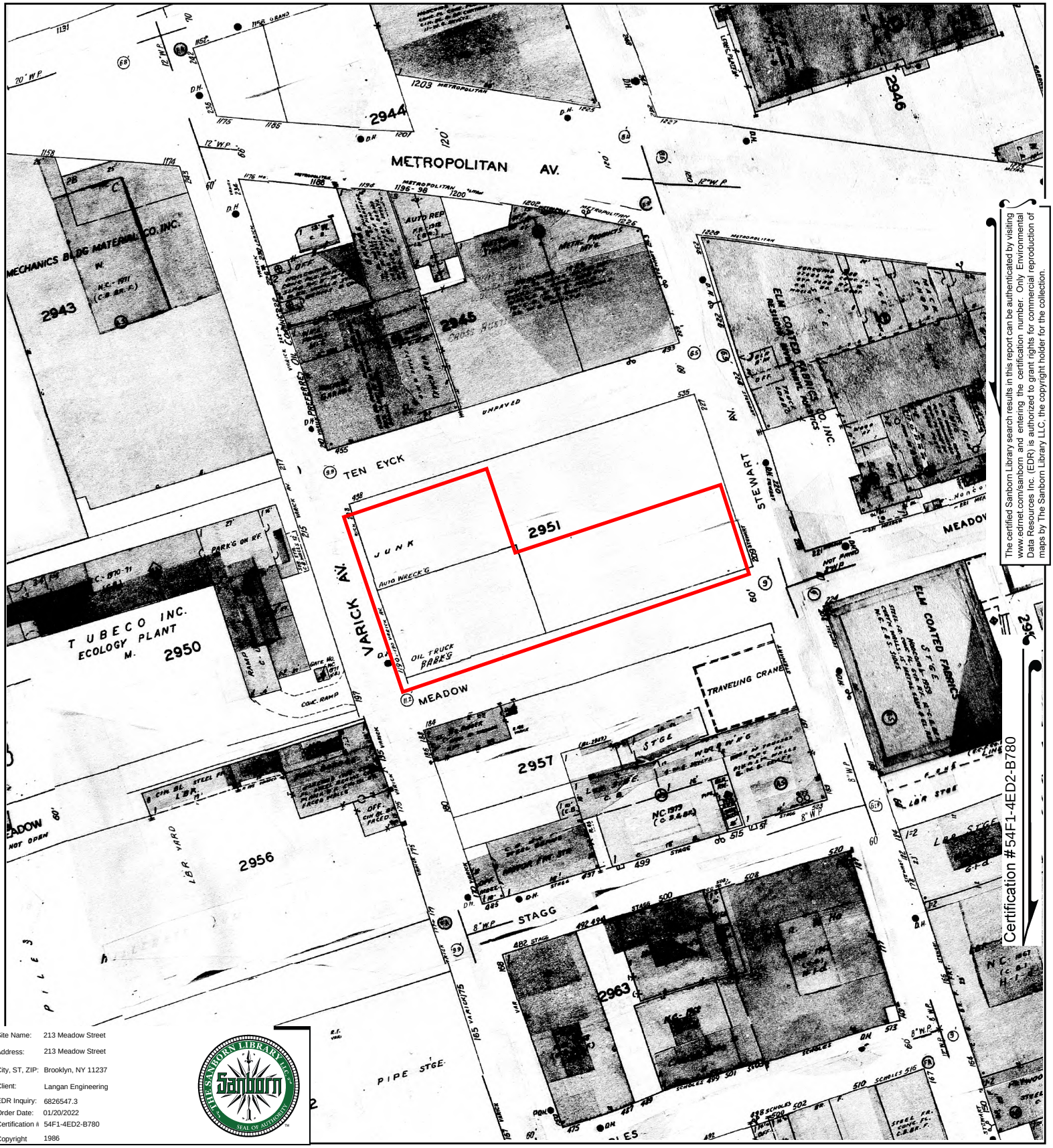
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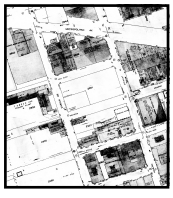


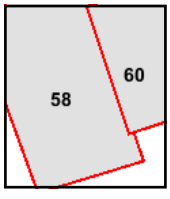
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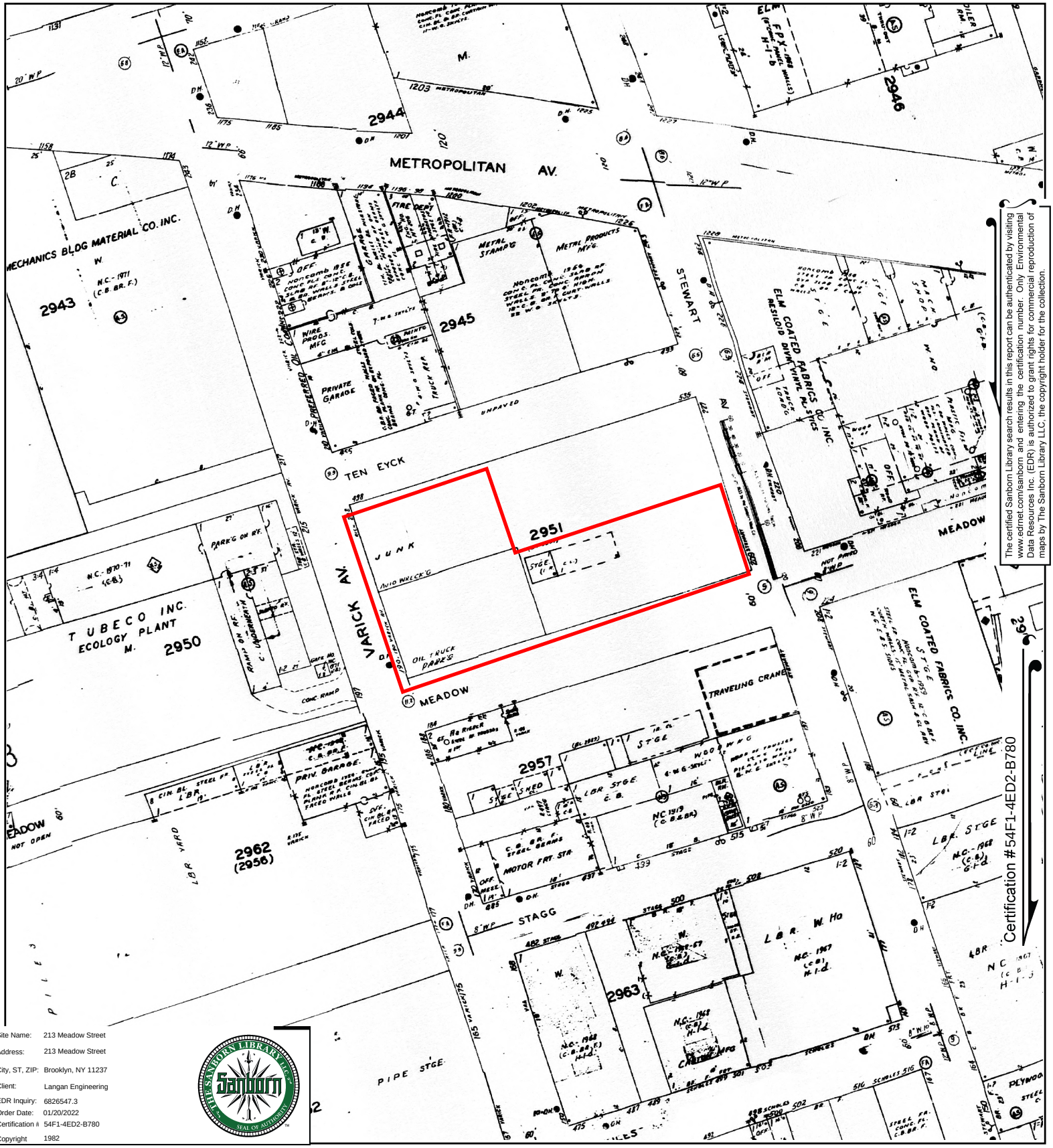




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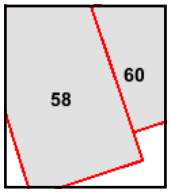


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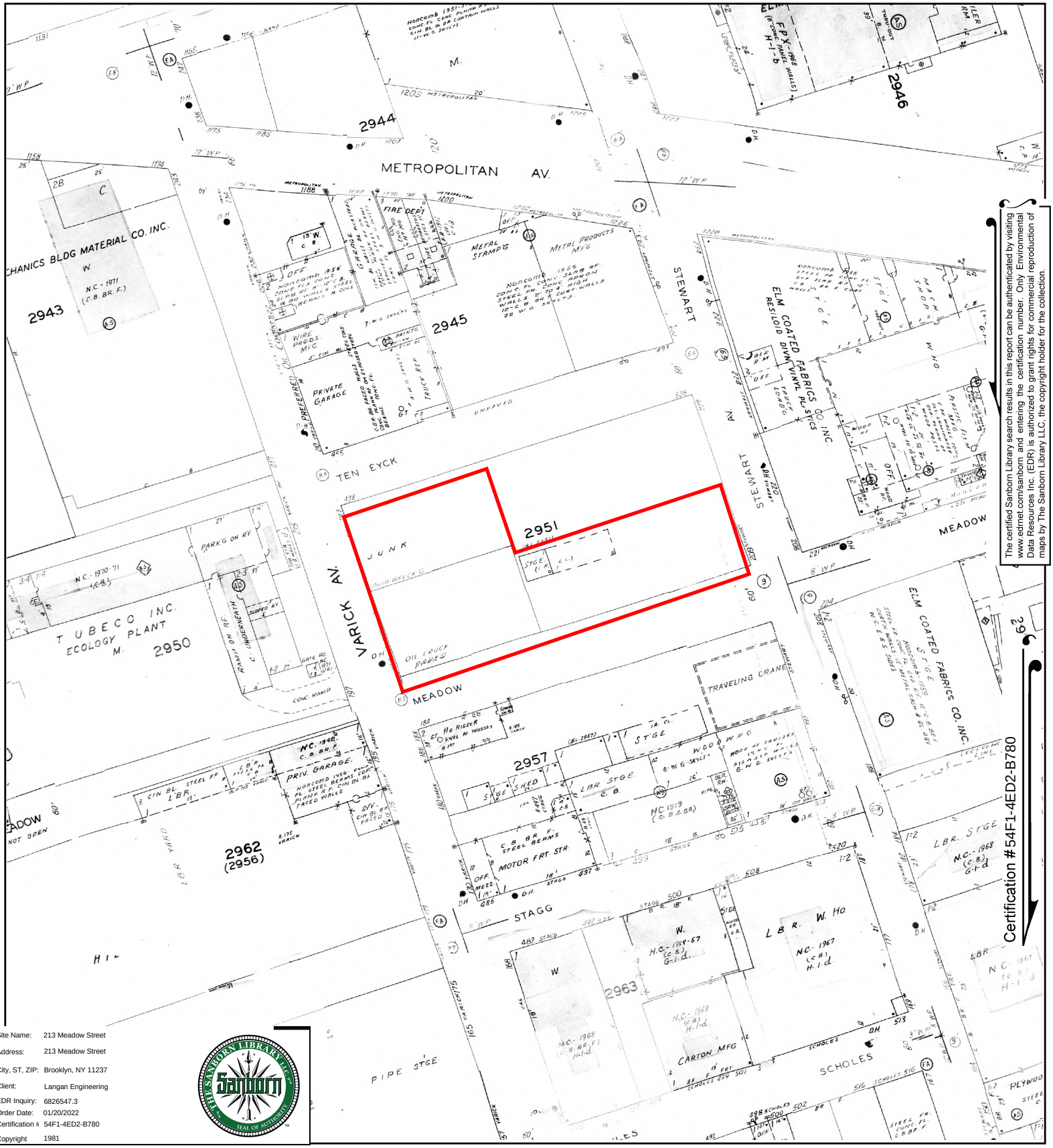




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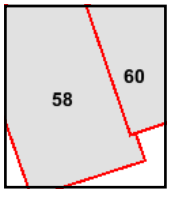


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Copyright	1981

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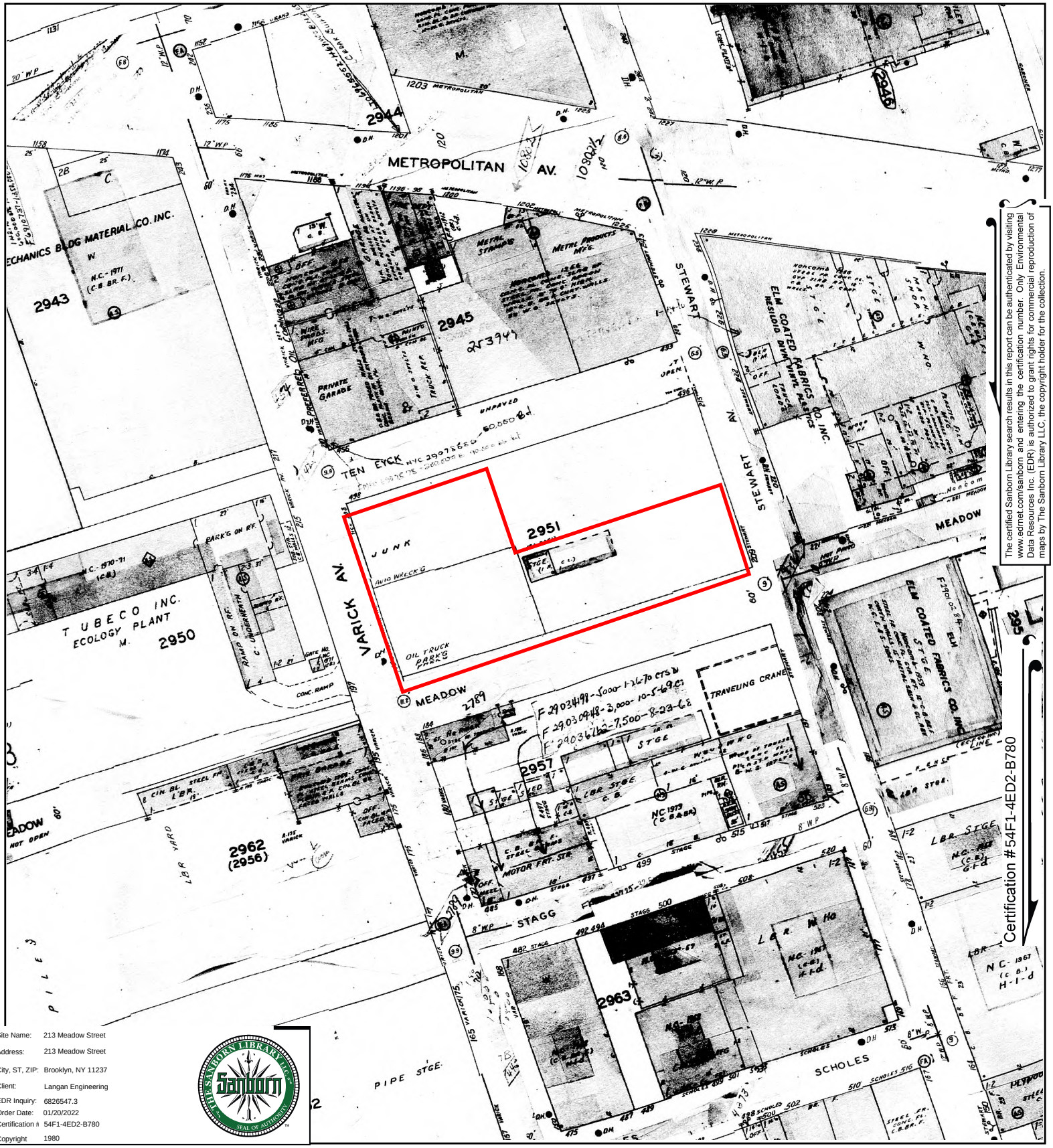




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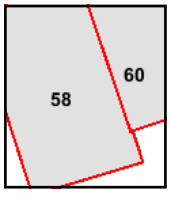


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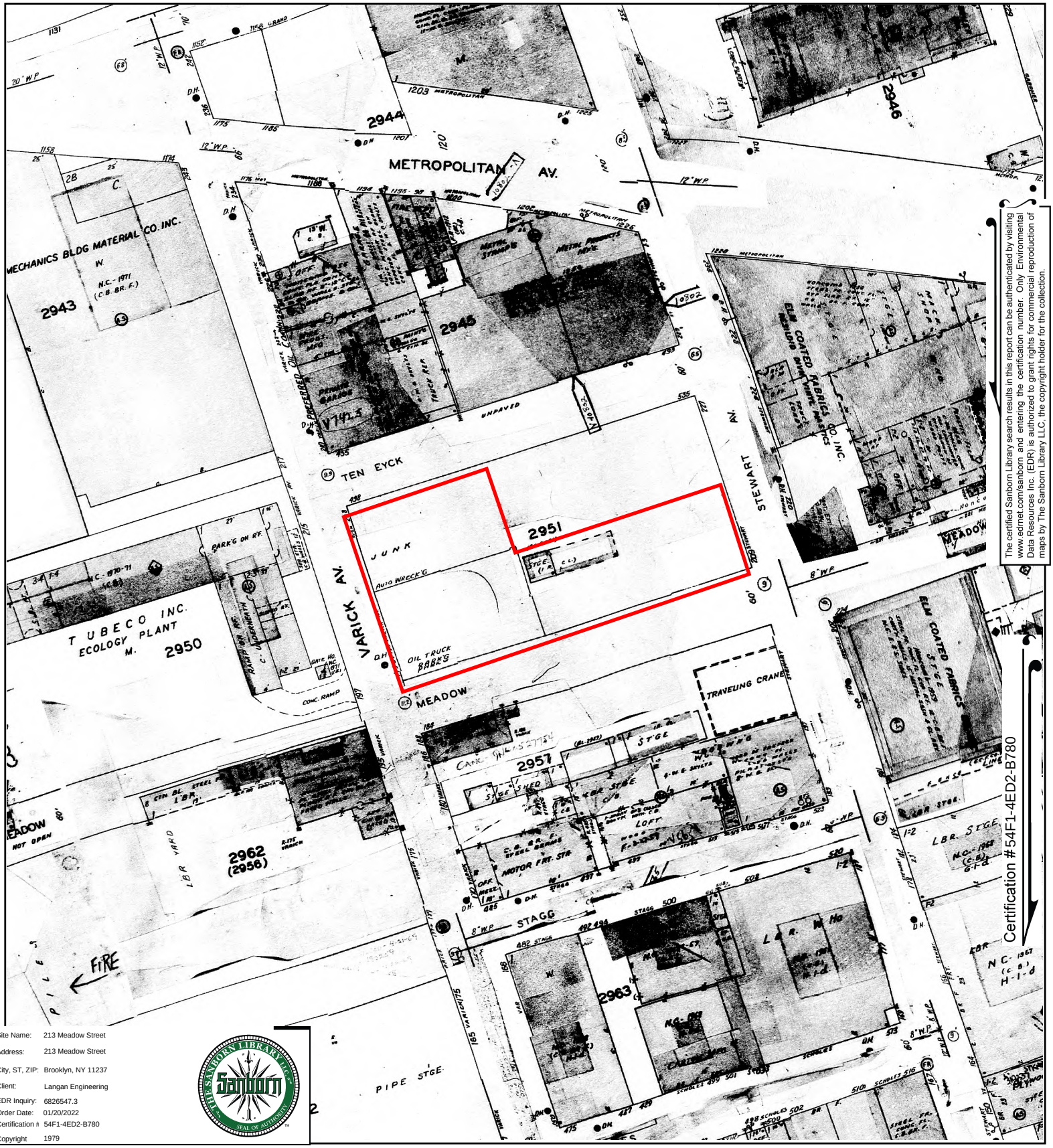




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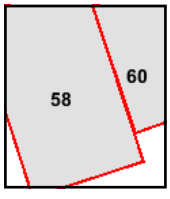
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Copyright	1979

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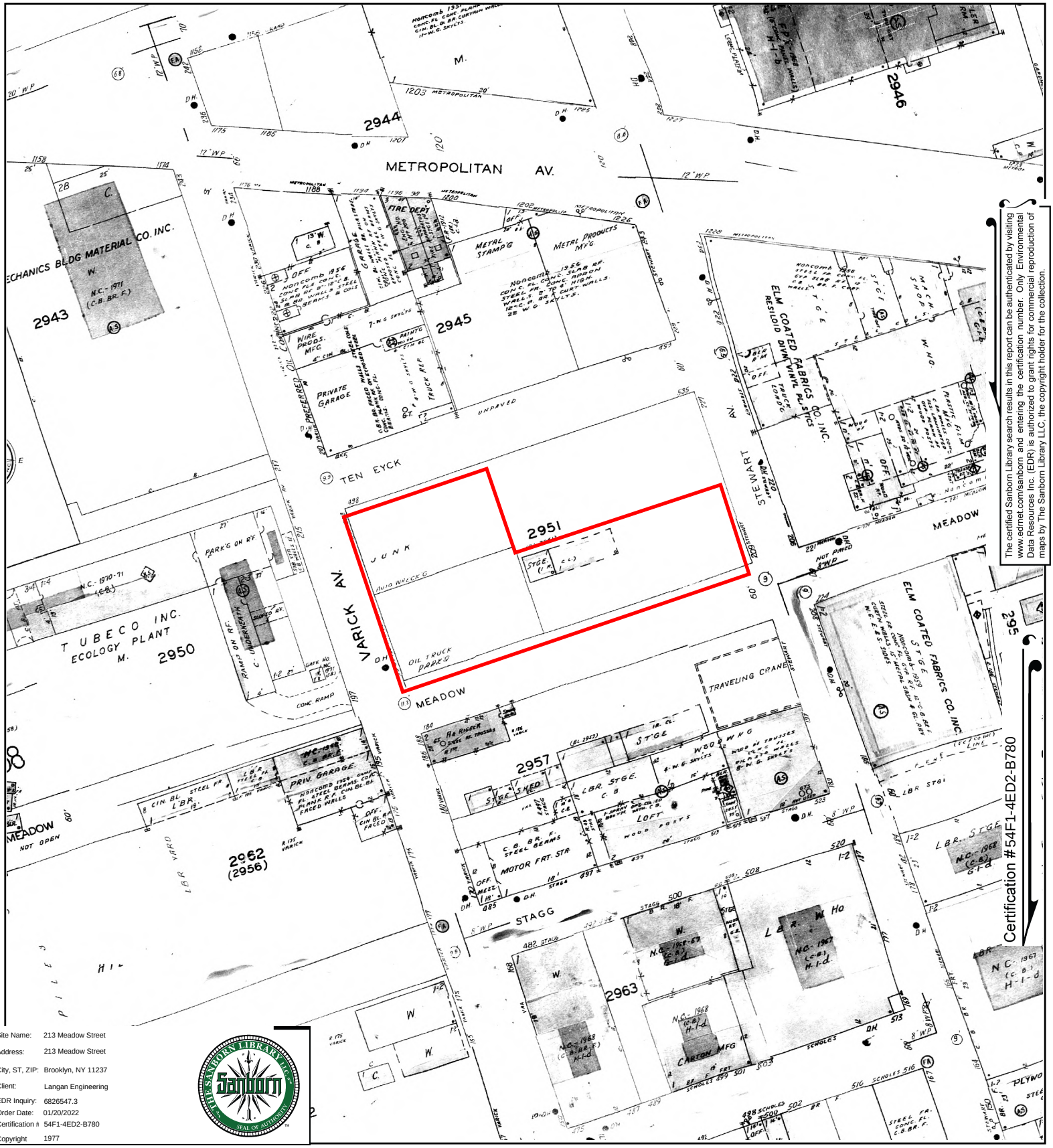




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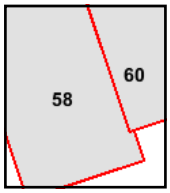


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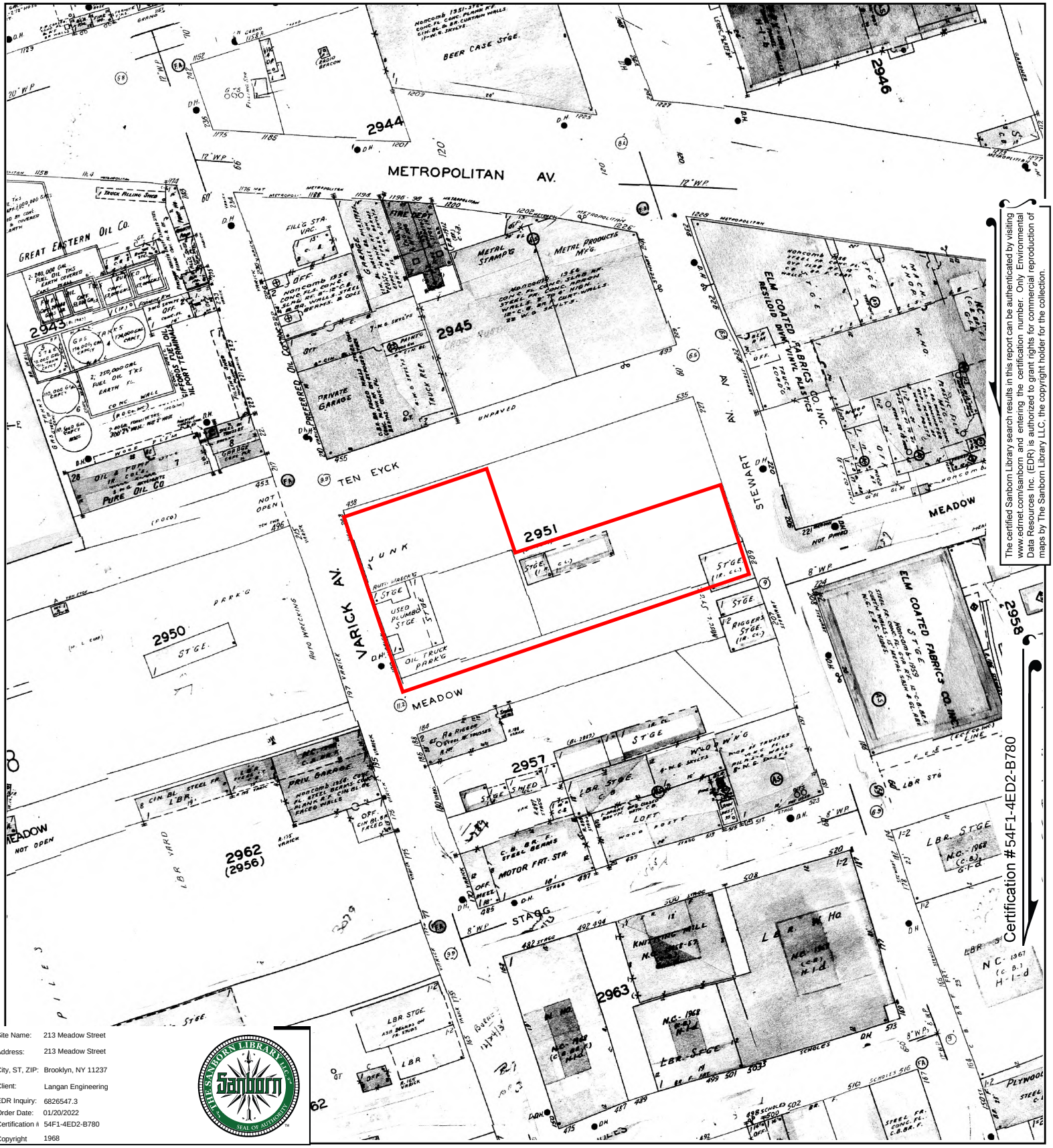
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1968



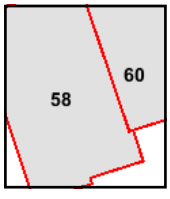
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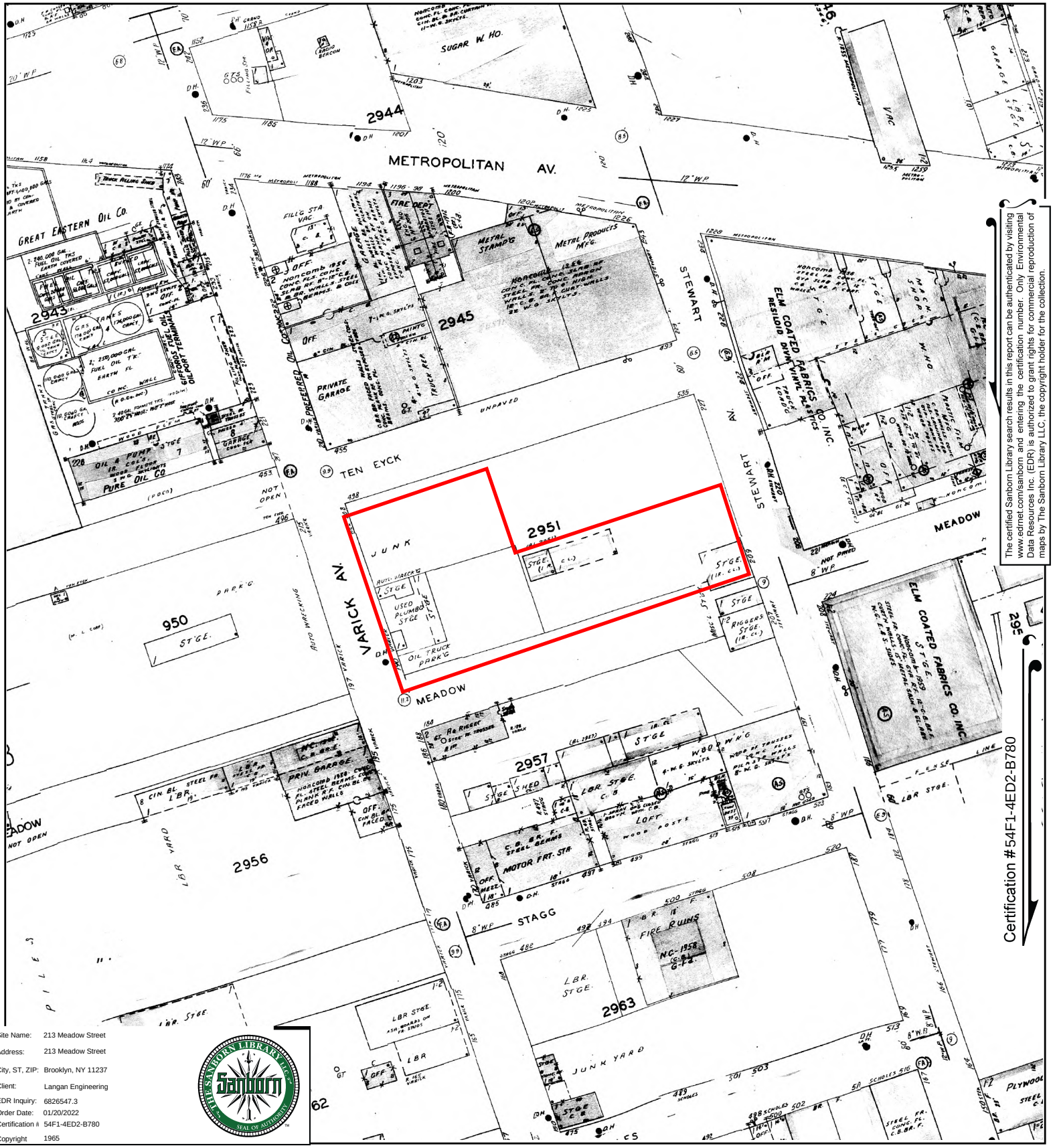




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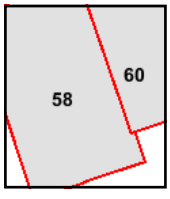


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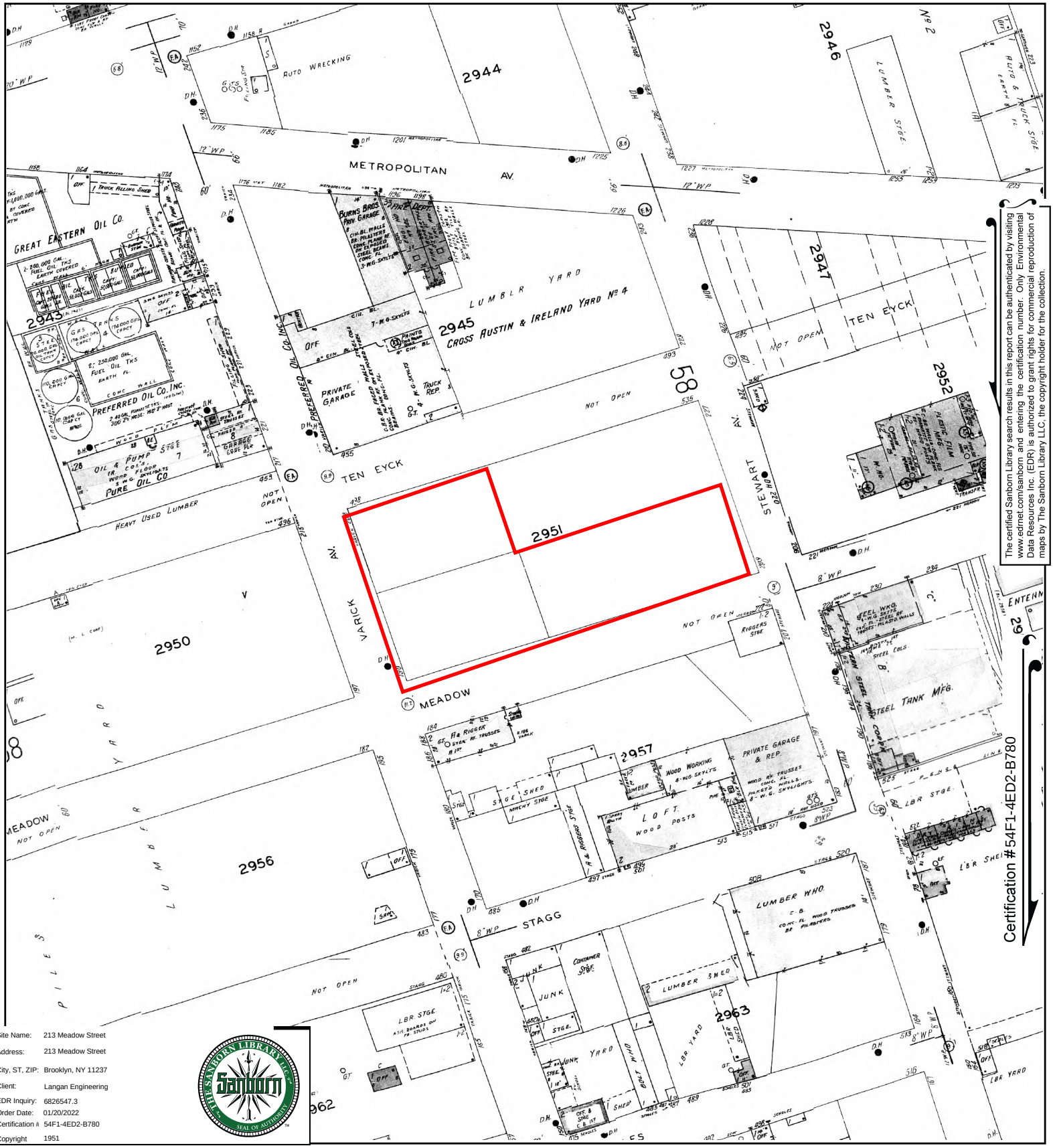
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1951

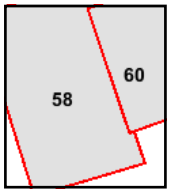


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Copyright	1951

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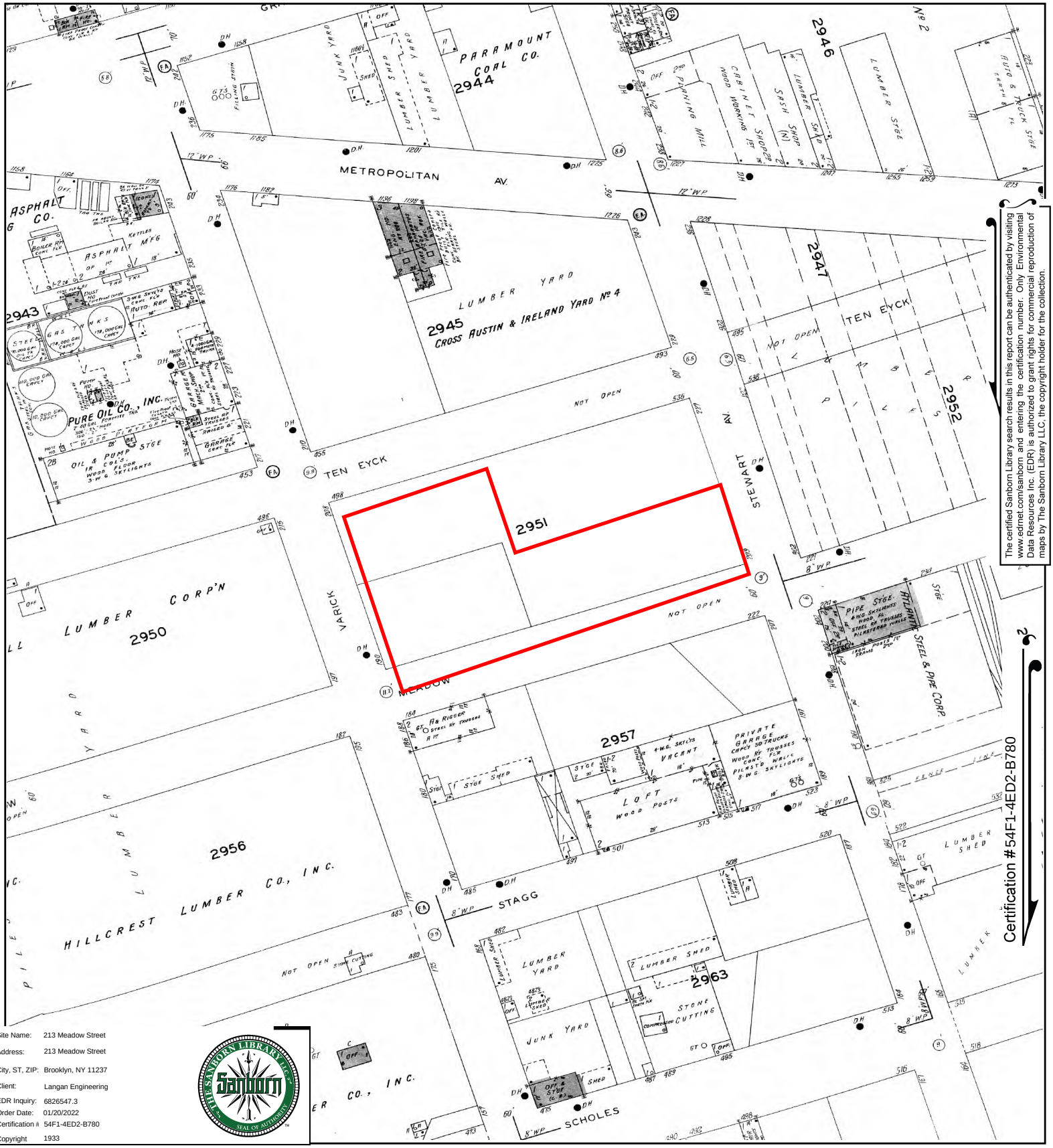




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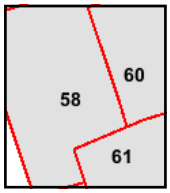


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Copyright	1933

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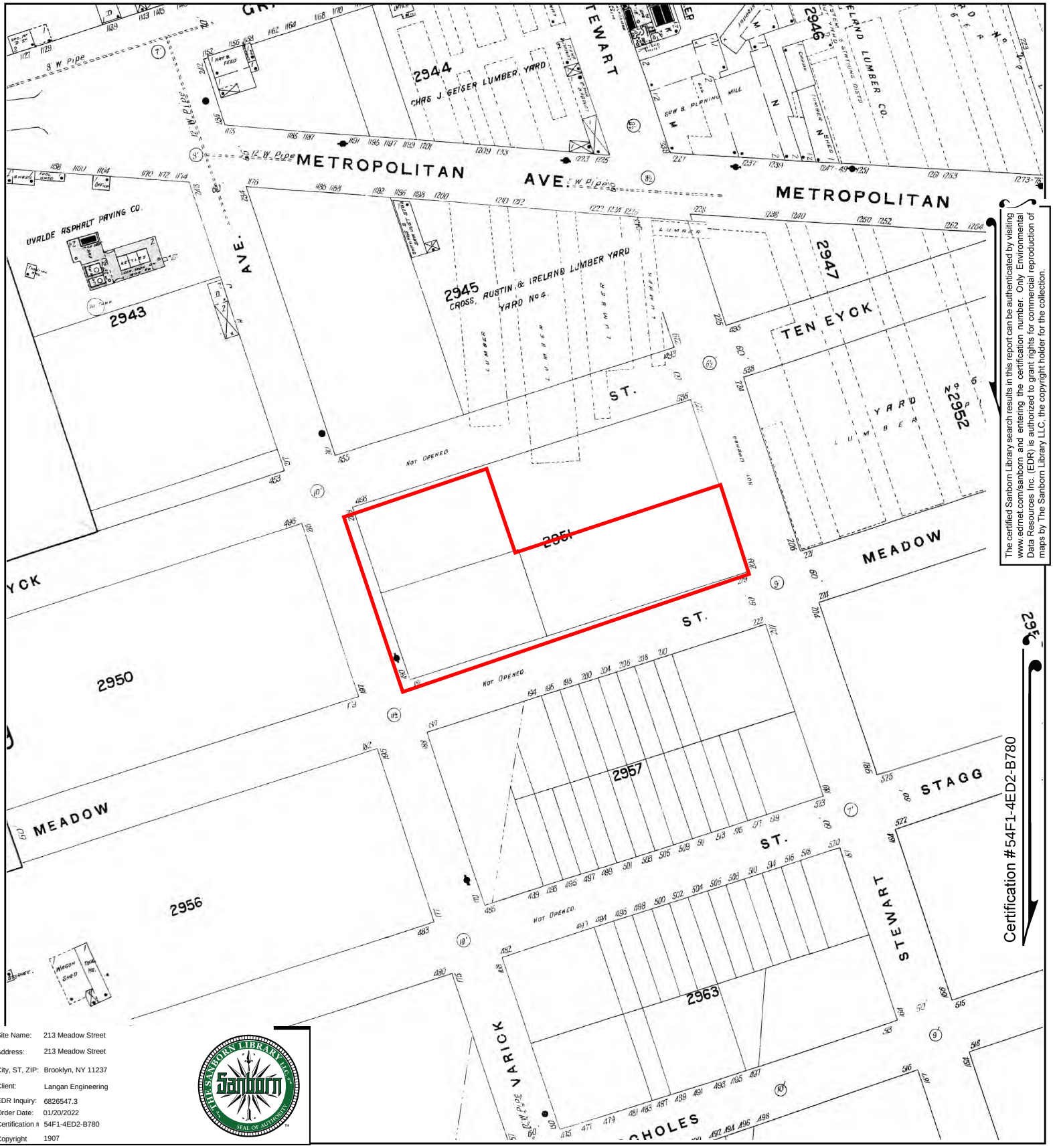




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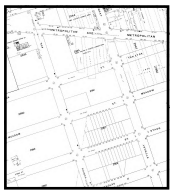


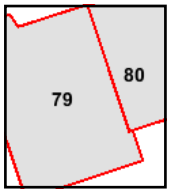
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Copyright	1907

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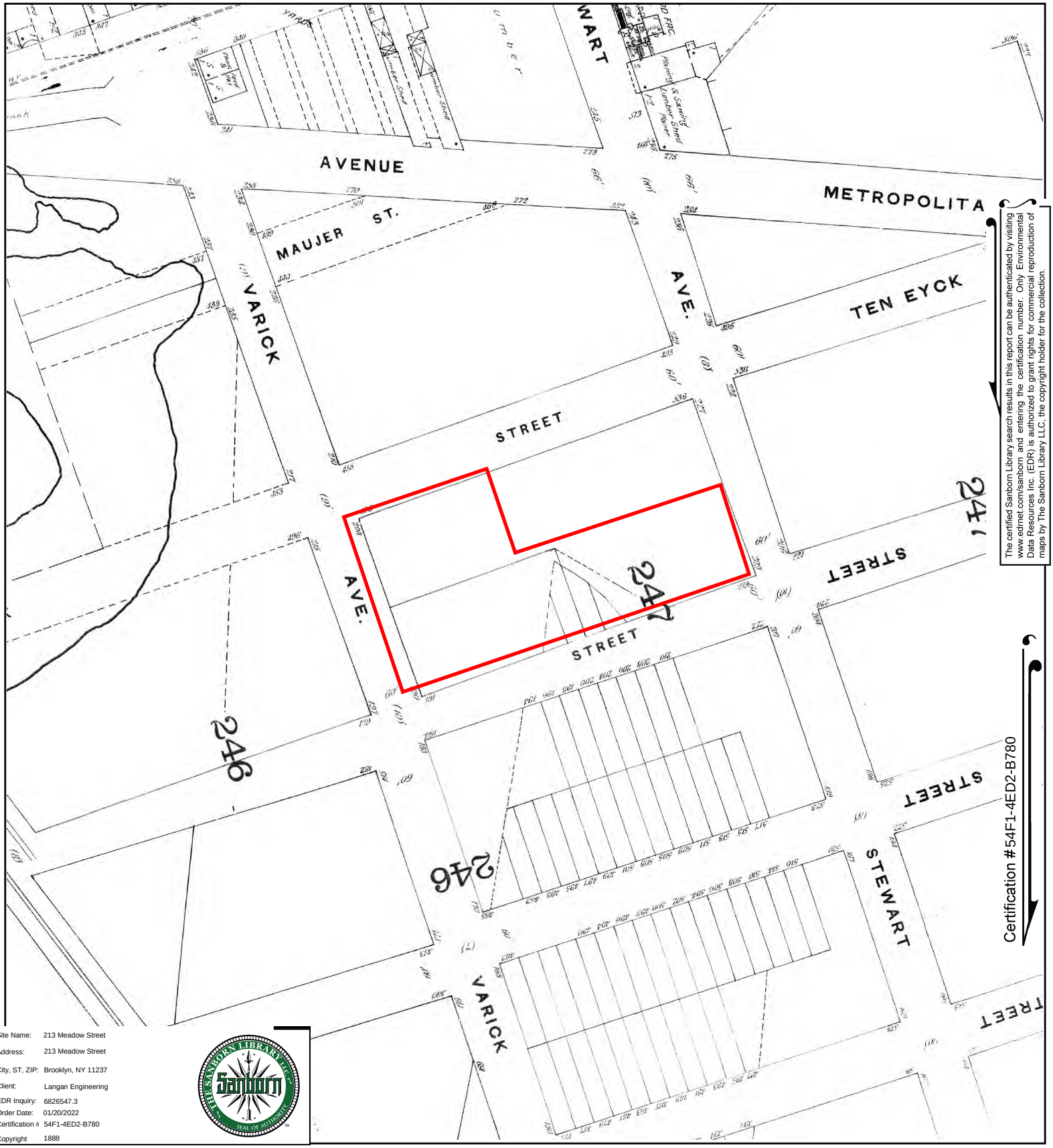




Volume 9, Sheet 80
Volume 9, Sheet 79

0 Feet 150 300 600

N

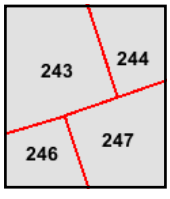


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Site Name:	213 Meadow Street
Address:	213 Meadow Street
City, ST, ZIP:	Brooklyn, NY 11237
Client:	Langan Engineering
EDR Inquiry:	6826547.3
Order Date:	01/20/2022
Certification #	54F1-4ED2-B780
Copyright	1888

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.





Volume 9, Sheet 247
Volume 9, Sheet 246
Volume 9, Sheet 244
Volume 9, Sheet 243

0 Feet 150 300 600

N

APPENDIX D

CITY DIRECTORY SEARCH

213 Meadow Street
213 Meadow Street
Brooklyn, NY 11237

Inquiry Number: 6826547.5
January 25, 2022

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1928 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 200 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	-	X	X	-
2014	Cole Information Services	-	X	X	-
2009	Cole Information Services	-	X	X	-
2005	Hill-Donnelly Corporation	-	X	X	-
2004	Cole Information Services	-	X	X	-
2000	Cole Information Services	-	X	X	-
1999	Cole Information Services	-	X	X	-
1997	NYNEX	-	X	X	-
1994	Cole Information Services	-	X	X	-
1992	NYNEX Informantion Resource Co.	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1985	NYNEX Information Resources Company	-	X	X	-
1980	New York Telephone	-	-	-	-
1976	New York Telephone	-	X	X	-
1973	New York Telephone	-	X	X	-
1970	New York Telephone	-	X	X	-
1965	New York Telephone	-	X	X	-
	New York Telephone	X	X	X	-
1960	New York Telephone	-	X	X	-
	New York Telephone	X	X	X	-
	New York Telephone Company	-	X	X	-
	New York Telephone Company	X	X	X	-
1949	New York Telephone Company	-	X	X	-
1945	New York Telephone	-	X	X	-
1940	New York Telephone	-	-	-	-
1934	R. L. Polk & Co.	-	-	-	-
1928	New York Telephone	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
227 Stewart Avenue	Client Entered	
210 Varick Avenue	Client Entered	X
221 Varick Avenue	Client Entered	X
204 Meadow Street	Client Entered	
200 Meadow Street	Client Entered	
188 Meadow Street	Client Entered	
194 Meadow Street	Client Entered	
190 Varick Avenue	Client Entered	X
208 Varick Avenue	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

213 Meadow Street
Brooklyn, NY 11237

FINDINGS DETAIL

Target Property research detail.

Varick Avenue

190 Varick Avenue

Year	*Uses*	*Source*
1965	South Shore Wrecking Corp	New York Telephone
1960	DEMOLITION & SALVAGE CO INC	New York Telephone
	Demolition & Salvage Co Inc	New York Telephone Company
	GENL WRECKING CORP	New York Telephone Company

208 Varick Avenue

Year	*Uses*	*Source*

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

MEADOW ST

192 MEADOW ST

Year	Uses	Source
2004	ERIC WEIL	Cole Information Services

STEWART AVE

200 STEWART AVE

Year	Uses	Source
2017	GUAN S MUSHROOM	Cole Information Services
2014	KORYEO INTERNATIONAL CORPORATION	Cole Information Services
2009	KORYEO INTERNATIONAL CORP	Cole Information Services
	LUCKY DELIGHT	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
	KORYEO INTL	Cole Information Services
	MAINSTREAM CONSULTING INC	Cole Information Services
1999	KORYEO INTERNATIONAL CORPORATION	Cole Information Services
1994	KORYEO INTERNATIONAL CORP	Cole Information Services

218 STEWART AVE

Year	Uses	Source
2014	S SANDS	Cole Information Services

220 STEWART AVE

Year	Uses	Source
2017	ACCURATE CUSTOM ENTRANCE CORP	Cole Information Services
2014	ACCURATE CUSTOM ENTRANCE CORPORATION	Cole Information Services
2009	ACCURATE CUSTOM ENTRANCES INC	Cole Information Services
2005	Accurate Custom Entrance Corp	Hill-Donnelly Corporation
	Beechwood Mountain 2 o	Hill-Donnelly Corporation
2004	BEECHWOOD MOUNTAIN LLC	Cole Information Services

FINDINGS

Year	Uses	Source
2004	JOSEPH RUBIN	Cole Information Services
2000	WALDON MIR WORKS	Cole Information Services
	EURO SALES & MKTG	Cole Information Services
1999	GOLD STAR SEATING	Cole Information Services
	ARKWIN HOME PRODUCTS	Cole Information Services
	WALDON MIRROR WORKS INCORPORATED	Cole Information Services
1997	Waldon Mirror Works Inc	NYNEX
1994	WALDON MIRROR WORKS INC	Cole Information Services
1992	GOOD WORLD TRADING N Y	NYNEX Informantion Resource Co.
1985	KALFLEX DIVISION OF KALEX CHEMICAL PRODUCTS INC	NYNEX Information Resources Company
	KALEX CHEMICAL PRODUCTS INC ELM COATED FABRICS DIV KALFLEX DIVISION	NYNEX Information Resources Company
	ELM COATED FABRICS DIV OF KALEX CHEMICAL PRODUCTS INC	NYNEX Information Resources Company
1976	GRACE W R & CO	New York Telephone
1973	Elm Coated Fabrics Div	New York Telephone
	Grace W R & Co	New York Telephone
1970	Elm Coated Fabrics Div of W R Grace & Co	New York Telephone
	GRACE W R & CO	New York Telephone
	Elm Coated Fabrics Div	New York Telephone
	Resiloid Corp	New York Telephone
1965	GRACE W R & CO	New York Telephone
	Elm Coated Fabrics Div	New York Telephone
	Resitoid Corp	New York Telephone
	Resitoid Cor P	New York Telephone
1960	Resiloid Corn	New York Telephone Company
	ELM COATED FABRBCS CO INC OFFICE & FACTORY	New York Telephone
	RESILOID CORN	New York Telephone
	ELM COATED FABRBCS CO INC Office & factory	New York Telephone Company
1949	Resiloid Corp	New York Telephone Company

FINDINGS

STEWERT AVE

220 STEWERT AVE

Year	Uses	Source
1976	ELM COATED FABRICS DIV OF W R GRACE & CO MFG OFCS & PLANT	New York Telephone

VARICK AVE

210 VARICK AVE

Year	Uses	Source
2017	NY LIVESTOCK MARKET INC	Cole Information Services
2014	NY LIVESTOCK MARKET INCORPORATED	Cole Information Services
2004	MEAGHAN MULHOLLAND	Cole Information Services
1994	STANCO UTILITIES	Cole Information Services
	HY-ATOMIC OIL CO	Cole Information Services
	VIJAX FUEL CORP	Cole Information Services
	HANNEY FUEL OIL CO	Cole Information Services
	MACDAVE OIL BURNER CO INC	Cole Information Services

221 VARICK AVE

Year	Uses	Source
2017	STAR RECYCLING INC	Cole Information Services
2009	WASTE MANAGEMENT	Cole Information Services
	STAR RECYCLING INC	Cole Information Services
1999	G & A MOVING & STORAGE COMPANY	Cole Information Services
	STAR RECYCLING INCORPORATED	Cole Information Services
1994	STAR RECYCLING INC	Cole Information Services

Varick Avenue

210 Varick Avenue

Year	Uses	Source
1973	INDUSTRIAL WIRE PRODS CO INC	New York Telephone
1970	Greater NY Termnl Inc ofc	New York Telephone
	INDUSTRL WIRE PRODS CO	New York Telephone
1965	Greater NY Termnl Inc oft	New York Telephone

FINDINGS

Year	Uses	Source
1965	MM Oil Burner Corp	New York Telephone
	MORTON FUEL OIL CORP	New York Telephone
	PREFERRED OIL GO INC	New York Telephone
	PREFERRED OIL HEAT INC	New York Telephone
1960	Greater NY Termnl Inc ofc	New York Telephone Company
	MORTON FUEL OIL CORP	New York Telephone Company
	PREFERRED OIL CO INC C	New York Telephone Company
	GREATER NY TERMINL INC OFC	New York Telephone
1949	Morton Fuel Oil Corp	New York Telephone Company
	Pioneer Utilities Corp oil brnrs	New York Telephone Company
	Preferred Oil Co Inc	New York Telephone Company

221 Varick Avenue

Year	Uses	Source
2005	G & A Moving & Storage Co Inc	Hill-Donnelly Corporation
	lo oo	Hill-Donnelly Corporation
	Star Recycling Inc	Hill-Donnelly Corporation
2000	STAR RECYCLING INC	Cole Information Services
1997	G & A Moving And Storage Inc	NYNEX
	G & A Moving And Storage Inc	NYNEX
	STAR RECYCLING INC	NYNEX
1973	Ecology Inc	New York Telephone
1945	Zenith Fuel Co	New York Telephone

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
188 Meadow Street	2017, 2014, 2009, 2005, 2004, 2000, 1999, 1997, 1994, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
192 MEADOW ST	2017, 2014, 2009, 2005, 2000, 1999, 1997, 1994, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
194 Meadow Street	2017, 2014, 2009, 2005, 2004, 2000, 1999, 1997, 1994, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
200 Meadow Street	2017, 2014, 2009, 2005, 2004, 2000, 1999, 1997, 1994, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
200 STEWART AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
204 Meadow Street	2017, 2014, 2009, 2005, 2004, 2000, 1999, 1997, 1994, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
210 VARICK AVE	2009, 2005, 2000, 1999, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
210 Varick Avenue	2017, 2014, 2009, 2005, 2004, 2000, 1999, 1997, 1994, 1992, 1985, 1980, 1976, 1945, 1940, 1934, 1928
218 STEWART AVE	2017, 2009, 2005, 2004, 2000, 1999, 1997, 1994, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
220 STEWART AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
220 STEWART AVE	2017, 2014, 2009, 2004, 1999, 1994, 1980, 1945, 1940, 1934, 1928
220 STEWERT AVE	2017, 2014, 2009, 2005, 2004, 2000, 1999, 1997, 1994, 1992, 1985, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
221 VARICK AVE	2014, 2005, 2004, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
221 Varick Avenue	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1985, 1980, 1976, 1970, 1965, 1960, 1949, 1940, 1934, 1928
227 Stewart Avenue	2017, 2014, 2009, 2005, 2004, 2000, 1999, 1997, 1994, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
213 Meadow Street	2017, 2014, 2009, 2005, 2004, 2000, 1999, 1997, 1994, 1992, 1985, 1980, 1976, 1973, 1970, 1949, 1945, 1940, 1934, 1928

APPENDIX E

ENVIRONMENTAL DATABASE RADIUS REPORT

LANGAN

213 Meadow Street
213 Meadow Street
Brooklyn, NY 11237

Inquiry Number: 6826547.2s
January 20, 2022

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Summary	A-2
Physical Setting Source Map	A-8
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Physical Setting Source Records Searched	PSGR-1

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

213 MEADOW STREET
BROOKLYN, NY 11237

COORDINATES

Latitude (North):	40.7130410 - 40ˆ 42' 46.94''
Longitude (West):	73.9282110 - 73ˆ 55' 41.55''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	590532.1
UTM Y (Meters):	4507243.5
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	14115940 BROOKLYN, NY
Version Date:	2019

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150522
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
213 MEADOW STREET
BROOKLYN, NY 11237

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	CASTLE SANITATION CO	213 MEADOW STREET	FINDS, ECHO		TP
A2	CASALINO INTERIOR DE	213 MEADOW ST	NY RGA LF		TP
A3	CASALINO INTERIOR DE	213 MEADOW ST	NY SWF/LF, NY Spills		TP
A4	VAULT 434	221 MEADOW STREET	NY Spills	Higher	1 ft.
A5	VAULT V560	221-41 MEADOW ST	NY Spills	Higher	1 ft.
B6	CON EDISON	VARICK AVE & MEADOW	NY MANIFEST	Lower	29, 0.005, WSW
B7	CON EDISON	VARICK AVE & MEADOW	RCRA NonGen / NLR	Lower	29, 0.005, WSW
A8	CON EDISON	STEWART AVE & MEADOW	NJ MANIFEST	Higher	37, 0.007, East
A9	CON EDISON	MEADOW ST & STEWART	RCRA-VSQG, NY MANIFEST, NJ MANIFEST	Higher	37, 0.007, East
A10	CON EDISON	STEWART AVE & MEADOW	NY MANIFEST	Higher	37, 0.007, East
A11	UNKNOWN - DRUM RUN	MEADOW STREET & STEW	NY Spills	Higher	37, 0.007, East
A12	CON EDISON	STEWART AVE & MEADOW	RCRA NonGen / NLR, FINDS, ECHO	Higher	37, 0.007, East
A13	MANHOLE 57877	MEADOW ST/STEWART AV	NY Spills	Higher	38, 0.007, East
B14	WASTE MANAGEMENT OF	215 VARICK AVENUE	NY AST	Lower	77, 0.015, West
B15	WMNY VARICK 1 TRANSF	215 VARICK AVENUE	NY SWF/LF, NY Financial Assurance	Lower	77, 0.015, West
A16	CONSOLIDATED EDISON	221 241 MEADOW ST V4	NY MANIFEST	Higher	101, 0.019, East
A17	DIELECTRIC FLUID GOI	243 MEADOW STREET	NY Spills	Higher	114, 0.022, East
A18	CON EDISON - MANHOLE	243 MEADOW STREET	RCRA-LQG, FINDS, ECHO, NY MANIFEST	Higher	114, 0.022, East
C19	VIJAX CORPORATION	210 VARICK AVENUE	NY UST	Lower	128, 0.024, WNW
C20	TO ROADWAY	IFO 210 VARICK AVE	NY Spills	Lower	128, 0.024, WNW
C21	COMMERCIAL BUILDING	210-222 VARICK AVENU	NY Spills	Lower	128, 0.024, WNW
C22	CON EDISON	210 VARICK AVE	NY MANIFEST	Lower	128, 0.024, WNW
C23	CON EDISON SERVICE B	210 VARICK AVE	RCRA NonGen / NLR	Lower	128, 0.024, WNW
C24	NEW TOWN CREEK	225 VARICK AVE	NY Spills	Lower	150, 0.028, WNW
D25	SB 55893	200 STEWART AVE	NY Spills	Higher	181, 0.034, ESE
B26	VARICK ST & MEADOW S	VARICK ST & MEADOW S	NY Spills	Lower	201, 0.038, SW
B27	CON EDISON	OPP 180 VARICK AVE	NY MANIFEST	Lower	205, 0.039, SSW
C28	TRANSFORMER #2279/EM	231 VARICK ST	NY Spills	Lower	219, 0.041, WNW
C29	ROADWAY - PARKING SP	222 VARRICK AVE	NY Spills	Lower	233, 0.044, NW
B30	WASTE MANAGEMENT OF	221 VARICK AVE	RCRA NonGen / NLR, NY MANIFEST	Lower	236, 0.045, West
B31	WASTE MANAGEMENT OF	221 VARICK AVENUE	NY AST	Lower	236, 0.045, West
E32	RIGHT-WAY DEALER WAR	1202 METROPOLITAN AV	NY UST, RCRA NonGen / NLR, FINDS, ECHO, NY...	Lower	252, 0.048, NNW
D33	CON EDISON	STEWART AVE & STAGG	NY MANIFEST	Higher	285, 0.054, SE
D34	CON EDISON	STEWART AVE & STAGG	RCRA NonGen / NLR, FINDS, ECHO	Higher	285, 0.054, SE
D35	CON EDISON	STEWART AVE & STAGG	NJ MANIFEST	Higher	285, 0.054, SE
C36	STORAGE BUILDING	1194 METROPOLITAN AV	NY Spills	Lower	292, 0.055, NW
C37	CON EDISON	FRONT OF 1196 METROP	NY MANIFEST	Lower	295, 0.056, NNW
C38	METRO	1188 METROPOLITAN AV	NY Spills	Lower	296, 0.056, NW
C39	TRUCK IN CREEK	221 ZARICK AVENUE	NY Spills	Lower	303, 0.057, WNW

MAPPED SITES SUMMARY

Target Property Address:
213 MEADOW STREET
BROOKLYN, NY 11237

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
C40	MANHATTAN POLYBAG CO	1150 METROPOLITAN AV	NY Spills, NY MANIFEST	Lower	310, 0.059, WNW
C41	MANHATTAN POLY BAG	1150 METROPOLITAN AV	RCRA NonGen / NLR, NY MANIFEST	Lower	310, 0.059, WNW
C42	MANHATTAN POLY BAG C	METROPOLITAN AVE	RCRA-VSQG, NY AST	Lower	310, 0.059, WNW
C43	LOT	1150 METROPOLITAN AV	NY Spills	Lower	310, 0.059, WNW
C44	AID AUTO STORES, INC	1150 METROPOLITAN AV	RCRA NonGen / NLR, FINDS, ECHO	Lower	310, 0.059, WNW
F45	ALJO AUTO ELECTRIC C	1250 METROPOLITAN AV	RCRA NonGen / NLR	Lower	338, 0.064, NE
F46	CONSOLIDATED PACKAGI	1250 METROPOLITAN AV	NY AIRS, NY MANIFEST	Lower	338, 0.064, NE
F47	CONSOLIDATED PACKAGI	1250 METROPOLITAN AV	RCRA-SQG, FINDS, ECHO, NJ MANIFEST	Lower	338, 0.064, NE
E48	METROPOLITAN STEWART	METROPOLITAN STEWART	NY Spills	Lower	345, 0.065, North
D49	CON EDISON	179 STEWART AVE	NJ MANIFEST	Higher	366, 0.069, SSE
D50	CON EDISON	179 STEWART AVE	RCRA NonGen / NLR, FINDS, ECHO	Higher	366, 0.069, SSE
D51	CON EDISON	179 STEWART AVE	NY MANIFEST	Higher	366, 0.069, SSE
G52	PATSON CORP	85 MEADOW ST	RCRA NonGen / NLR, FINDS, ECHO	Lower	366, 0.069, WSW
G53	209 MORGAN AVE. CORP	85 MEADOW STREET	NY UST	Lower	366, 0.069, WSW
G54	APT BUILDING TANK	85 MEADOW STREET	NY LTANKS	Lower	366, 0.069, WSW
H55	VARICK AVENUE	165 VARICK AVENUE	NY SHWS	Lower	371, 0.070, SSW
H56	VARICK AVENUE	165 VARICK AVENUE	NY HSWDS	Lower	371, 0.070, SSW
E57	1201 METROPOLITAN AV	1201 METROPOLITAN AV	NY Spills	Lower	372, 0.070, NNW
C58	JJ KANG ENTERPRISE,	1188 METROPOLITAN AV	NY UST	Lower	377, 0.071, NW
C59	BUY RITE GARAGE INC	1188 METROPOLITAN AV	RCRA NonGen / NLR, ICIS, US AIRS	Lower	377, 0.071, NW
C60	METRO GARAGE	1188 METROPOLITAN AV	NY AST, NY Spills	Lower	377, 0.071, NW
E61	NYCDEP - GENERAL STO	1201 METROPOLITAN AV	RCRA-VSQG, FINDS, ECHO, NY MANIFEST	Lower	384, 0.073, NNW
E62	NYC DEP	1201 METROPOLITAN AV	NJ MANIFEST	Lower	384, 0.073, NNW
H63	NYC DEPT OF SANITAT	VARICK AVE	RCRA-VSQG	Lower	405, 0.077, SSW
H64	NYC DEPART OF SANITA	VARICK AVE	NY LTANKS, NY Spills, NY MANIFEST	Lower	405, 0.077, SSW
H65	DSNY BK DISTRICT 1/4	161 VARICK AVENUE	NY UST	Lower	405, 0.077, SSW
I66	GRAND STREET BRIDGE	METROPOLITAN AVE	NY Spills	Lower	412, 0.078, WNW
F67	SUNSHINE BISCUITS IN	1251 METROPOLITAN AV	NY LTANKS, NY UST	Lower	419, 0.079, NE
I68	MANHOLE #15350	VARICK AVE & METROPO	NY Spills	Lower	433, 0.082, NW
I69	ROADWAY	METROPOLITAN AVE & V	NY Spills	Lower	433, 0.082, NW
70	CON EDISON - MANHOLE	169 GARDNER AVE	NY MANIFEST	Higher	449, 0.085, East
F71	SUNSHINE BISCUITS	1251 METROPOLITAN AV	RCRA NonGen / NLR, FINDS, ECHO, NY MANIFEST	Lower	455, 0.086, NE
J72	46-25 METROPOLITAN A	46025 METROPOLITAN A	NY Spills	Lower	461, 0.087, NW
G73	COMMERCIAL PROPERTY	175 VARICK AVE	NY Spills	Lower	493, 0.093, SW
G74	M. FINE LUMBER CO. I	175 VARICK AVE	NY UST	Lower	493, 0.093, SW
F75	ROADWAY	METROPOLITAN/GARDNER	NY Spills	Lower	501, 0.095, NE
F76	CON EDISON - MANHOLE	GARDNER AVE AND METR	RCRA-LQG	Lower	510, 0.097, NE
F77	CON EDISON	GARDNER AVE & METROP	RCRA NonGen / NLR	Lower	510, 0.097, NE
F78	CONSOLIDATED EDISON	GARDNER AVE & METROP	NY MANIFEST	Lower	510, 0.097, NE

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H79	CON EDISON	SCHOLES & VARICK	RCRA NonGen / NLR, NY MANIFEST	Lower	543, 0.103, South
K80	NYC DEP	165 STEWART AVE	RCRA NonGen / NLR, NY MANIFEST	Higher	554, 0.105, SSE
L81	NEW TOWN CREEK	GRANT & STEWART ST	NY Spills	Lower	609, 0.115, North
K82	HI TECH HOLDINGS LLC	492 SCHOLES STREET	NY SWRCY	Lower	610, 0.116, South
K83	HI-TECH RESOURCE REC	492 SCHOLES STREET	NY UST	Lower	610, 0.116, South
K84	SYNTHETIC PROTECTIVE	492 SCHOLES ST	RCRA NonGen / NLR, FINDS, ECHO, NY MANIFEST	Lower	610, 0.116, South
K85	CASILINO CONTRACTING	160 STEWART AVE	NY Spills	Higher	613, 0.116, SE
J86	CONSOLIDATED CARPET	1157 GRAND ST	NY LTANKS	Lower	617, 0.117, NNW
J87	ULTIMATE TRUCK & EQU	1157 GRAND ST	RCRA-VSQG	Lower	617, 0.117, NNW
J88	ULTIMATE TRUCK & EQU	1157 GRAND STREET	NY AST	Lower	617, 0.117, NNW
J89	ULTIMATE TRUCK & EQU	1157 GRAND STREET	NY Spills	Lower	617, 0.117, NNW
M90	CON EDISON	FRONT OF 140 VARICK	NY MANIFEST	Lower	625, 0.118, South
I91	CON EDISON - MANHOLE	1131 GRAND STREET	RCRA-LQG, NY MANIFEST	Lower	649, 0.123, NW
I92	1131 GRAND ET IAC	1131 GRAND STREET	NY UST	Lower	649, 0.123, NW
I93	MANHOLE 1299	1131 GRAND ST	NY Spills	Lower	649, 0.123, NW
I94	VAULT 2597	METROPOLITAN AV	NY Spills	Lower	655, 0.124, WNW
I95	NEWTOWN CREEK	METROPOLITAN BRIDGE	NY Spills	Lower	655, 0.124, WNW
I96	MANHOLE #36370	GRAND ST/METROPOLITA	NY Spills	Lower	655, 0.124, WNW
I97	METROPOLITAIN AVE &	METROPOLITAIN AVE &	NY Spills	Lower	655, 0.124, WNW
I98	METROPOLITAN AVE BRI	METROPOLITAN AVENUE	NY Spills	Lower	655, 0.124, WNW
I99	METROPOLITAN AVE BRI	OVER ENGLISH KILLS C	NY Spills	Lower	655, 0.124, WNW
N100	CON EDISON	228 GARDNER AVE	NY MANIFEST	Lower	682, 0.129, NE
L101	CONSOLIDATED CARPET	1181 GRAND STREET	NY UST	Lower	697, 0.132, North
L102	CONSOLIDATED CARPET	1181 GRAND ST	RCRA NonGen / NLR, NY MANIFEST	Lower	697, 0.132, North
L103	NYC FIRE DEPT ENGINE	1201 GRAND ST	RCRA NonGen / NLR, FINDS, ECHO, NY MANIFEST	Lower	727, 0.138, North
L104	ENGINE COMPANY 206	1201 GRAND STREET	NY UST	Lower	727, 0.138, North
L105	ENGINE COMPANY 206	1201 GRAND STREET	NY AST	Lower	727, 0.138, North
N106	WASTE MANAGEMENT OF	232 GARDNER AVENUE	NY SWF/LF, NY Spills	Lower	727, 0.138, NNE
N107	WASTE MANAGEMENT OF	232 GARDNER AVENUE	NY AST	Lower	727, 0.138, NNE
M108	HI-TECH RESOURCE REC	130 VARICK AVENUE	NY SWF/LF	Lower	728, 0.138, South
M109	HI-TECH RESOURCE REC	130 VARICK AVE	RCRA NonGen / NLR	Lower	728, 0.138, South
O110	BAYSIDE FUEL OIL DEP	1100 GRAND ST	RCRA NonGen / NLR, FTTS, HIST FTTS, FINDS, ECHO	Higher	752, 0.142, WNW
O111	BAYSIDE FUEL OIL DEP	1100 GRAND ST	NY MOSF, NY Spills, NY SPDES	Higher	752, 0.142, WNW
O112	BAYSIDE FUEL OIL DEP	1100 GRAND ST	FINDS, FUELS PROGRAM	Higher	752, 0.142, WNW
O113	BAYSIDE FUEL OIL DEP	1100 GRAND STREET	NY MOSF UST, NY MOSF AST	Higher	752, 0.142, WNW
L114	UNION BEER DIST. L.L	1213-17 GRAND ST	NY UST	Lower	756, 0.143, North
L115	1213 GRAND STREET	1213 GRAND STREET	NY LTANKS, NY Spills	Lower	756, 0.143, North
M116	COOPER RECYCLING; LL	123 VARICK AVENUE	NY SWF/LF, NY Spills, NY Financial Assurance, NY...	Lower	771, 0.146, South
M117	WASTE MANAGEMENT OF	123 VARICK AVE	RCRA-SQG, US AIRS, PA MANIFEST, NY MANIFEST, NJ...	Lower	771, 0.146, South

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M118	WASTE MANAGEMENT OF	123 VARICK AVENUE	NY AST	Lower	771, 0.146, South
P119	MIONE TRANSIT MIX	1301 METROPOLITAN AV	RCRA NonGen / NLR, FINDS, ECHO	Lower	788, 0.149, ENE
P120	WASTE MANAGEMENT OF	1301 METROPOLITAN AV	NY SWF/LF	Lower	788, 0.149, ENE
P121	1301 METROPOLITAN AV	1301 METROPOLITAN AV	NY UST	Lower	788, 0.149, ENE
122	NEWTOWN CREEK SUPERF	NEWTOWN CRK - N LAT	NPL, SEMS, RCRA-SQG, ROD, PRP, NY MANIFEST	Lower	794, 0.150, NW
O123	NYCDOT - METROPOLITA	1109 METROPOLITAN AV	RCRA-LQG, FINDS, ECHO, NY MANIFEST, NJ MANIFEST	Higher	799, 0.151, WNW
M124	CON EDISON	VARICK AND MESEROLE	RCRA NonGen / NLR, FINDS, ECHO	Lower	801, 0.152, South
N125	CON EDISON	GARDNER AVE & GRAND	NY MANIFEST	Lower	815, 0.154, NNE
N126	CON EDISON	GARDNER AVE & GRAND	NJ MANIFEST	Lower	815, 0.154, NNE
N127	CON EDISON	GARDNER AVE & GRAND	RCRA NonGen / NLR	Lower	815, 0.154, NNE
M128	CON EDISON	W SIDE VARICK ST	NJ MANIFEST	Lower	816, 0.155, South
M129	CON EDISON	W SIDE VARICK ST	NY MANIFEST	Lower	816, 0.155, South
M130	CON EDISON	VARICK & MESEROLE ST	NJ MANIFEST	Lower	816, 0.155, South
M131	CON EDISON	VARICK ST & MESEROLE	NY MANIFEST	Lower	816, 0.155, South
M132	CON EDISON	VARICK ST & MESEROLE	RCRA NonGen / NLR, FINDS, ECHO	Lower	816, 0.155, South
M133	CON EDISON	VARICK ST & MESEROLE	RCRA NonGen / NLR	Lower	816, 0.155, South
Q134	ALLOCCO RECYCLING LT	575 SCHOLES STREET	NY SWRCY, NY Spills	Higher	908, 0.172, ESE
P135	CON ED - V 4628	SCOTT AVE & METRO AV	RCRA NonGen / NLR, NY MANIFEST	Lower	947, 0.179, ENE
O136	L & H ASSOCIATES C/O	1101-1107 METROPOLIT	NY UST	Lower	974, 0.184, WNW
R137	CON EDISON	585 MESSEROLE ST	NY MANIFEST	Higher	994, 0.188, ESE
R138	CON EDISON - MANHOLE	585 MESSEROLE ST	RCRA-LQG	Higher	994, 0.188, ESE
S139	ALFRED CHEMICAL CORP	111 GARDNER AVE.	NY CBS, NY AST, NY CBS AST, NY Spills	Lower	1004, 0.190, SE
S140	ALFRED CHEMICAL CORP	111 GARDNER AVE	RCRA NonGen / NLR, FINDS, ECHO	Lower	1004, 0.190, SE
T141	WOOD-TEX PANELS INC	108 VARICK AVE	RCRA NonGen / NLR, FINDS, ECHO, NY MANIFEST	Lower	1049, 0.199, SSE
U142	GREENWALD INDUSTRIES	1340 METROPOLITAN AV	RCRA NonGen / NLR, FINDS, ECHO, NY MANIFEST	Higher	1072, 0.203, East
V143	ROLLING FRITO-LAY SA	222 MORGAN AVENUE	NY AST	Lower	1079, 0.204, West
V144	EASTERN TRANSFER OF	222 MORGAN AVE	NY SWF/LF, NY LTANKS, NY SPDES	Lower	1079, 0.204, West
R145	MESEROLE STREET RECY	568 MESEROLE STREET	NY SWRCY	Higher	1099, 0.208, ESE
U146	CON EDISON SERVICE B	ONDERDONK AVE & METR	RCRA NonGen / NLR, NY MANIFEST	Lower	1105, 0.209, ENE
T147	ENEQUIST CHEMICAL CO	100 VARICK AVE	RCRA-LQG, NY CBS AST, FINDS, ECHO, PA MANIFEST, NY...	Lower	1112, 0.211, South
T148	ENEQUIST CHEMICAL	100 VARICK AVENUE	NY AST	Lower	1112, 0.211, South
T149	EMEQUIFT CHEMICAL CO	100 VARICK AVE	NY LTANKS	Lower	1112, 0.211, South
T150	ENEQUIST CHEMICAL CO	100 VARICK AVENUE	NY CBS, NY AST, NY Spills	Lower	1112, 0.211, South
W151	NEWTOWN USED AUTO PA	1074 GRAND STREET	NY AST	Lower	1114, 0.211, West
W152	NEWTOWN AUTO SALES &	1074 GRAND STREET	NY SWF/LF, NY SPDES	Lower	1114, 0.211, West
Q153	GADS INC	594 SCHOLES STREET	NY SWF/LF	Higher	1123, 0.213, East
Q154	BFI WASTE SERVICES O	594 SCHOLES STREET	NY AST	Higher	1123, 0.213, East
T155	CON EDISON - MANHOLE	VARICK AVE	RCRA-LQG	Lower	1125, 0.213, South
T156	CON EDISON	VARICK AVE	NY MANIFEST	Lower	1125, 0.213, South

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Q157	BFI (598-636 SCHOLES	598-636 SCHOLES STRE	NY SWF/LF, NY SWRCY	Higher	1137, 0.215, East
W158	CLOSED-LACKOF RECENT	1105 METROPOLITAN AV	NY LTANKS	Lower	1144, 0.217, WNW
159	1101 METROPOLITAN AV	1101 METROPOLITAN AV	NY LTANKS	Lower	1171, 0.222, WNW
X160	BLINN DRUG CO	16 REWE ST	NY UST	Lower	1173, 0.222, NW
Y161	A&I REALTY	20 REWE ST	RCRA NonGen / NLR, FINDS	Lower	1182, 0.224, NNW
Y162	A&I REALTY	20 REWE ST	NY MANIFEST	Lower	1182, 0.224, NNW
W163	ACME ALBERT STEEL DR	1050 GRAND ST	RCRA NonGen / NLR, FINDS, ECHO, NY MANIFEST	Higher	1184, 0.224, West
X164	12 REWE STREET LLC	12 REWE STREET	NY AST	Lower	1191, 0.226, NW
X165	12 REWE STREET LLC	12 REWE STREET	NY UST	Lower	1191, 0.226, NW
U166	AVALANCHE CONTRACTIN	46-26 METROPOLITAN A	NY SWF/LF	Lower	1196, 0.227, ENE
167	CHARLES J KING INC	1301 GRAND ST	NY SWF/LF, NY UST, NY SWRCY, RCRA NonGen / NLR, NY...	Lower	1217, 0.230, NE
W168	GRAND PETROLEUM, LLC	1049 GRAND STREET	NY UST	Higher	1223, 0.232, West
W169	B P PRODUCTS NORTH A	1049 GRAND ST	RCRA NonGen / NLR, NJ MANIFEST, NY MANIFEST	Higher	1223, 0.232, West
170	8 REWE STREET, LLC	8 REWE STREET	NY UST	Lower	1250, 0.237, NW
Z171	NYC DEP HAZ MAT	200 MORGAN AVENUE	NY MOSF, NY LIENS, NY Spills, NY MANIFEST	Lower	1253, 0.237, WSW
Z172	CON EDISON	FRONT OF 200 MORGAN	NY MANIFEST	Lower	1253, 0.237, WSW
Z173	MORGAN OIL TERMINALS	200 MORGAN AVE	NY MOSF UST, NY Spills, RCRA NonGen / NLR, FINDS,...	Lower	1253, 0.237, WSW
U174	CAPITAL AUTO SALVAGE	4600 METROPOLITAN AV	NY AST	Lower	1273, 0.241, East
U175	METRO AUTO SALVAGE	4600 METROPOLITAN AV	NY SWF/LF, NY CBS, NY AST, NY Spills, NY SPDES	Lower	1273, 0.241, East
176	ALLOCCO RECYCLING (6	606 MESEROLE STREET	NY SWRCY	Higher	1275, 0.241, ESE
AA177	RANDOLPH ASSOCIATES	165 RANDOLPH STREET	NY UST, NY Spills	Higher	1307, 0.248, SE
Y178	NEW YORK TELEPHONE C	15 REWE ST	RCRA NonGen / NLR, FINDS, ECHO, NY MANIFEST	Lower	1313, 0.249, NNW
AA179	CAL OSTLUND INC	185 RANDOLPH ST	NY LTANKS, RCRA NonGen / NLR, FINDS, ECHO, NY...	Higher	1336, 0.253, SE
AB180	FRITO LAY	202-218 MORGAN AVENU	NY ENG CONTROLS, NY INST CONTROL, NY BROWNFIELDS	Lower	1386, 0.262, WSW
AB181	FRITO-LAY	202 MORGAN AVENUE	NY SWF/LF, NY Spills, NY MANIFEST	Lower	1386, 0.262, WSW
182	DURITE S&V & MAINT.	250 MORGAN AVE	NY SWF/LF	Higher	1402, 0.266, West
AC183	WASTE MANAGEMENT OF	101 VARICK AVENUE	NY SWRCY, NY Spills, NY SPDES	Lower	1406, 0.266, South
184	GREEN HILL	2 REWE ST & 300 VAND	NY LTANKS	Lower	1445, 0.274, WNW
185	COTOIA ENTERPRISES	46-26 METROPOLITAN A	NY SWRCY	Lower	1448, 0.274, East
186	YRC BROOKLYN (187)	1313 GRAND ST	RCRA-VSQG, NY LTANKS, NY Spills, FINDS, ECHO, NY...	Lower	1452, 0.275, NE
AA187	NEO RAY LIGHTING PRO	537 JOHNSON AVENUE	RCRA-VSQG, NY LTANKS, NY UST, ICIS, US AIRS,...	Higher	1494, 0.283, SSE
AD188	140 MORGAN AVE/BROOK	140 MORGAN AVENUE	NY LTANKS, NY Spills	Lower	1627, 0.308, SW
AC189	JOYVA VACANT LOT	498 JOHNSON AVENUE	NY VCP	Lower	1630, 0.309, South
AE190	BROWNING FERRIS	72 SCOTT AVE	NY SWF/LF, NY LTANKS, NY CBS, NY AST, NY CBS AST,...	Higher	1637, 0.310, ESE
AE191	255 RANDOLPH STREET	255 RANDOLPH ST	NY BROWNFIELDS, NY MANIFEST	Higher	1716, 0.325, ESE
192	DANGELO AUTO SALES &	582 JOHNSON AVE	NY SWF/LF	Higher	1726, 0.327, SSE
AF193	APT COMPLEX	349 SCHOLES ST	NY LTANKS	Higher	1727, 0.327, SW
194	345 TENEYCK STREET	345 TENEYCK STREET	NY LTANKS	Higher	1730, 0.328, West
AD195	100 MORGAN AVENUE	100 MORGAN AVE	NY LTANKS	Lower	1785, 0.338, SW

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AG196	T & T SCRAP LLC	340 MASPETH AVENUE	NY SWF/LF, NY Spills, NY SPDES	Lower	1809, 0.343, NNW
AG197	NEW YORK RECYCLERS;	340 MASPETH AVENUE	NY SWF/LF	Lower	1809, 0.343, NNW
AH198	FEDEX FACILITY	300 MASPETH AVE	NY LTANKS, NY Spills	Lower	1813, 0.343, NNW
AI199	JOYVA CORPORATION	53 VARICK AVE	NY LTANKS	Higher	1814, 0.344, South
AJ200	CORNISH KNIT GOODS/C	121 INGRAHAM ST./89	NY ENG CONTROLS, NY INST CONTROL, NY VCP	Higher	1827, 0.346, South
AJ201	CORNISH MINI MILLS	121 INGRAHAM ST	NY LTANKS	Higher	1827, 0.346, South
AG202	TANKS-A-LOT CO	362 MASPETH AVE	SEMS-ARCHIVE	Lower	1840, 0.348, North
AG203	TANKS-A-LOT COMPANY	362 MASPETH AVENUE	NY HSWDS	Lower	1840, 0.348, North
AG204	BCF OIL REFINING, IN	360 MASPETH AVENUE	NY SWF/LF, NY LTANKS, NY MOSF UST, NY MOSF, NY...	Lower	1852, 0.351, NNW
AG205	US ENVIRONMENTAL PRO	C O BCF OIL REFINING	SEMS, NY SHWS, RCRA NonGen / NLR, PRP, ECHO, NY...	Lower	1852, 0.351, NNW
AG206	BCF, 360 MASPETH AVE	360 MASPETH AVENUE,	NY VCP	Lower	1852, 0.351, NNW
AK207	COOPER TANK AND WELD	222 MASPETH AVENUE	NY SWF/LF, NY Financial Assurance	Higher	1854, 0.351, NW
AE208	ROLET FOOD PRODUCTS	70 SCOTT AVE	NY LTANKS	Higher	1859, 0.352, SE
AJ209	UNOCCUPIED WAREHOUSE	88 PORTER AVENUE	NY LTANKS	Higher	1860, 0.352, South
AK210	EQUITY WORKS	MASPETH AND VANDERVO	EDR MGP	Higher	1864, 0.353, NW
AK211	FONTANA TRANSFER STA	252 MASPETH AVENUE	NY SWF/LF	Lower	1895, 0.359, NW
AH212	GREENPOINT ENERGY FA	287 MASPETH AVENUE	NY CBS, NY AST, NY MOSF AST, NY Spills, NY AIRS,...	Higher	1897, 0.359, NNW
AH213	GREENPOINT	287 MASPETH AVENUE	EDR MGP	Higher	1897, 0.359, NNW
AH214	BKLYN UNION GAS /GRE	287 MASPETH AVE	SEMS-ARCHIVE	Higher	1897, 0.359, NNW
AH215	GREENPOINT	287 MASPETH AVENUE	NY SHWS, NY SWF/LF, NY LTANKS, NY MOSF, NY TANKS,...	Higher	1897, 0.359, NNW
AH216	BUG, MASPETH GATE ST	285 MASPETH AVENUE	NY HSWDS	Higher	1899, 0.360, NNW
AH217	BKLYN UNION GAS /MAS	285 MASPETH AVE	SEMS-ARCHIVE	Higher	1899, 0.360, NNW
AF218	SCHOLES ST. STATION	SCHOLES ST 7 BOGART	EDR MGP	Higher	1901, 0.360, SW
AL219	DITMAS OIL ASSOCIATE	364 MASPETH AVENUE	NY MOSF UST, NY AST, NY CBS AST, NY MOSF AST, NY...	Lower	1908, 0.361, North
AL220	OFFICE BUILDING	364 MASPETH AVE	NY LTANKS	Lower	1908, 0.361, North
AL221	DITMAS OIL ASSOCIATE	364 MASPETH AVENUE	NY LTANKS, NY CBS, NY MOSF, NY Spills, NY SPDES	Lower	1908, 0.361, North
222	46-81 METROPOLITAN A	46-81 METROPOLITAN A	NY BROWNFIELDS	Lower	1914, 0.363, East
223	APARTMENT BUILDING	35 MEADOW STREET	NY LTANKS	Higher	1945, 0.368, WSW
AM224	LEWIS FLUSHING CORP.	1819 FLUSHING AVENUE	NY LTANKS	Higher	1946, 0.369, ESE
225	MORGAN TERMINAL	200 MORGAN AVE	NY HSWDS	Higher	1958, 0.371, SW
226	F & W WOODWORK CO	1267 FLUSHING AVE	NY LTANKS, NY Spills, RCRA NonGen / NLR, NY...	Higher	2001, 0.379, SE
AI227	DERBY TEXTILE CORPOR	41 VARICK AVENUE	NY LTANKS, NY UST	Higher	2004, 0.380, South
228	88 INGRAHAM REALTY C	88 INGRAHAM ST	RCRA-SQG, NY ENG CONTROLS, NY INST CONTROL, NY...	Higher	2005, 0.380, SSW
229	EMPIRE WAREHOUSE	1312-1324 FLUSHING A	NY LTANKS	Higher	2041, 0.387, ESE
AJ230	CORNELL BEVERAGES IN	105 HARRISON PLACE	NY LTANKS, NY UST	Higher	2074, 0.393, South
231	308 MAUJER ST	308 MAUJER ST	NY LTANKS	Higher	2077, 0.393, West
AM232	NATIONWIDE SCRAP LLC	18-19 FLUSHING AVENU	NY SWRCY	Higher	2132, 0.404, ESE
233	KORNBLUM, SIDNEY	394 JOHNSON AVE.	SEMS-ARCHIVE, LEAD SMELTERS	Higher	2143, 0.406, SSW
AN234	MS POWER INC	187 MASPETH VE	NY SWF/LF	Higher	2229, 0.422, NW

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AN235	MAGNUM BODY SHOP INC	185A MASPETH AVE	NY SWF/LF	Higher	2229, 0.422, NW
236	U. S. WASTE MANAGEME	48 KNICKERBOCKER (69	NY SWF/LF	Higher	2271, 0.430, SSW
AN237	BUG, EQUITY WORKS	MASPETH AND MORGAN A	NY HSWDS	Higher	2289, 0.434, WNW
AO238	UNIVERSAL SCRAP PROC	27 STEWART AVE	NY SWF/LF, NY Spills, NY SPDES	Higher	2329, 0.441, SSE
239	47-40 METROPOLITAN A	47-40 METROPOLITAN A	NY LTANKS	Higher	2341, 0.443, East
AP240	M & C TRANSFER STATI	58-26 47 STREET	NY SWF/LF	Lower	2352, 0.445, NE
AP241	NMS WASTE PAPER	58-35 47TH STREET	NY SWRCY, NY Spills	Lower	2384, 0.452, NE
AP242	GPB WASTE NY DBA NY/	58-35 47TH STREET	NY SWRCY	Lower	2384, 0.452, NE
AQ243	18-51 FLUSHING AVE/Q	18-51 FLUSHING AVENU	NY LTANKS	Higher	2396, 0.454, East
AO244	FORMER UNIVERSAL SCR	1181 FLUSHING AVENUE	NY BROWNFIELDS, NY Spills	Higher	2417, 0.458, SSE
245	TRANSCON LINES TERMI	430 MASPETH AVE	NY LTANKS, NY UST, RCRA NonGen / NLR, NY MANIFEST	Lower	2465, 0.467, NNE
AR246	FORMER JAYER PLATING	2 INGRAHAM ST	NY SHWS, NY VCP, NY BROWNFIELDS	Higher	2492, 0.472, SSW
AR247	FORMER JAYER PLATING	2 INGRAHAM STREET	NY HSWDS	Higher	2492, 0.472, SSW
248	UNIVERSAL USED AUTO	1175 FLUSHING AVE	NY SWF/LF, NY Spills	Higher	2536, 0.480, SSE
AQ249	1884 FLUSHING AVENUE	1884 FLUSHING AVENUE	NY LTANKS, NY Spills	Higher	2549, 0.483, East
250	COGENT TRANSFER; LLC	105-115 THAMES STREE	NY SWF/LF, NY Financial Assurance	Higher	2573, 0.487, South
AS251	57-00 MASPETH AVE LL	5700 47TH ST	NY SWF/LF, NY UST, NY AST, NY Spills	Lower	2576, 0.488, NNE
AS252	ISLAND TRANS CORP	5700 47TH STREET	NY LTANKS	Lower	2576, 0.488, NNE
253	BKLYN UNION GAS /EQU	MASPETH & MORGAN AVE	SEMS-ARCHIVE	Higher	2587, 0.490, WNW
254	881-889 GRAND STREET	885 GRAND ST	RCRA-LQG, NY LTANKS, NY MANIFEST	Higher	2597, 0.492, West
255	RAPID ARMORED CORPOR	254 SCHOLES STREET	NY SHWS, NY Spills	Higher	2866, 0.543, WSW
256	TECHNICAL METAL FINI	214 STARR STREET	SEMS-ARCHIVE, NY SHWS	Higher	3203, 0.607, SSE
257	FORMER KLINK COSMO C	364 RICHARDSON STREE	NY SHWS	Higher	3377, 0.640, NW
258	GOODMAN BROTHERS CO	18 DIVISION PLACE	RCRA-VSQG, NY SHWS, NY UST, NY CBS, NY AST, NY CBS..	Higher	3896, 0.738, NW
259	FORMER LOMBARDY STRE	171 LOMBARDY STREET	NY SHWS, NY CBS, NY AST, NY CBS AST, NY MANIFEST	Higher	3994, 0.756, NNW
260	95 LOMBARDY ST./ACME	95 LOMBARDY ST	NY SHWS, NY UST	Higher	4091, 0.775, NW
AT261	FORMER ACME STEEL PA	513 PORTER AVENUE	NY SHWS	Higher	4361, 0.826, NNW
AT262	ACME STEEL/BRASS FOU	72 ANTHONY STREET	NY SHWS	Higher	4361, 0.826, NNW
263	TOP HAT CLEANERS	152 GRAHAM AVE	RCRA-VSQG, NY SHWS, ICIS, US AIRS, NY MANIFEST	Higher	4367, 0.827, WSW
264	FORMER W.L.K. CORP.	58-30 57TH STREET	NY SHWS	Higher	4817, 0.912, ENE
265	CITY BARREL CO.	421-429 MEEKER STREE	NY SHWS	Higher	5213, 0.987, WNW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
CASTLE SANITATION CO 213 MEADOW STREET BROOKLYN, NY 11237	FINDS ECHO Registry ID: 110070625464	N/A
CASALINO INTERIOR DE 213 MEADOW ST BROOKLYN, NY	NY RGA LF	N/A
CASALINO INTERIOR DE 213 MEADOW ST BROOKLYN, NY 11237	NY SWF/LF NY Spills Spill Number/Closed Date: 9315532 / 1994-03-31 Site ID: 214676 Spill Date: 1994-03-31	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

LUCIS ---- Land Use Control Information System
US ENG CONTROLS ---- Engineering Controls Sites List
US INST CONTROLS ---- Institutional Controls Sites List

Federal ERNS list

ERNS ---- Emergency Response Notification System

Lists of state and tribal leaking storage tanks

INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land
NY HIST LTANKS ---- Listing of Leaking Storage Tanks

Lists of state and tribal registered storage tanks

FEMA UST ---- Underground Storage Tank Listing
NY CBS UST ---- Chemical Bulk Storage Database
INDIAN UST ---- Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

NY RES DECL ---- Restrictive Declarations Listing

Lists of state and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

NY ERP ---- Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

NY SWTIRE ---- Registered Waste Tire Storage & Facility List
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---- Open Dump Inventory
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
NY DEL SHWS ---- Delisted Registry Sites
US CDL ---- National Clandestine Laboratory Register
NY PFAS ---- PFAS Contamination Site Location Listing

EXECUTIVE SUMMARY

Local Lists of Registered Storage Tanks

NY HIST UST ---- Historical Petroleum Bulk Storage Database
NY HIST AST ---- Historical Petroleum Bulk Storage Database

Local Land Records

LIENS 2 ---- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
NY Hist Spills ---- SPILLS Database
NY SPILLS 90 ---- SPILLS 90 data from FirstSearch
NY SPILLS 80 ---- SPILLS 80 data from FirstSearch

Other Ascertainable Records

FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
RMP ---- Risk Management Plans
PADS ---- PCB Activity Database System
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
DOT OPS ---- Incident and Accident Data
CONSENT ---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---- Indian Reservations
FUSRAP ---- Formerly Utilized Sites Remedial Action Program
UMTRA ---- Uranium Mill Tailings Sites
US MINES ---- Mines Master Index File
ABANDONED MINES ---- Abandoned Mines
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
UXO ---- Unexploded Ordnance Sites
NY COAL ASH ---- Coal Ash Disposal Site Listing
NY DRYCLEANERS ---- Registered Drycleaners
NY E DESIGNATION ---- E DESIGNATION SITE LISTING
NY VAPOR REOPENED ---- Vapor Intrusion Legacy Site List
NY UIC ---- Underground Injection Control Wells
NY COOLING TOWERS ---- Registered Cooling Towers
NY LEAD ---- Lead-based Paint Testing Results
MINES MRDS ---- Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto ---- EDR Exclusive Historical Auto Stations

EXECUTIVE SUMMARY

EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

NY RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 10/20/2021 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEWTOWN CREEK SUPERF Cerclis ID:: 206282 EPA Id: NYN000206282	***NEWTOWN CRK - N LAT***	***NW 1/8 - 1/4 (0.150 mi.)***	***122***	***433***

Lists of Federal sites subject to CERCLA removals and CERCLA orders

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 10/20/2021 has revealed that there are 2

SEMS sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEWTOWN CREEK SUPERF	***NEWTOWN CRK - N LAT***	***NW 1/8 - 1/4 (0.150 mi.)***	***122***	***433***
Site ID: 0206282				
EPA Id: NYN000206282				
US ENVIRONMENTAL PRO	***C O BCF OIL REFINING***	***NNW 1/4 - 1/2 (0.351 mi.)***	***AG205***	***901***
Site ID: 0204261				
EPA Id: NYD068273044				

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 10/20/2021 has revealed that there are 5 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BKLYN UNION GAS /GRE	287 MASPETH AVE	NNW 1/4 - 1/2 (0.359 mi.)	AH214	987
Site ID: 0201977				
EPA Id: NYD980532014				
BKLYN UNION GAS /MAS	285 MASPETH AVE	NNW 1/4 - 1/2 (0.360 mi.)	AH217	1012
Site ID: 0201996				
EPA Id: NYD980532220				
KORNBLUM, SIDNEY	***394 JOHNSON AVE.***	***SSW 1/4 - 1/2 (0.406 mi.)***	***233***	***1096***
BKLYN UNION GAS /EQU	MASPETH & MORGAN AVE	WNW 1/4 - 1/2 (0.490 mi.)	253	1165
Site ID: 0201980				
EPA Id: NYD980532048				

Lower Elevation	Address	Direction / Distance	Map ID	Page
TANKS-A-LOT CO	362 MASPETH AVE	N 1/4 - 1/2 (0.348 mi.)	AG202	866
Site ID: 0201827				
EPA Id: NYD980509228				

Lists of Federal RCRA generators

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 09/13/2021 has revealed that there are 7 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON - MANHOLE EPA ID:: NYP004297362	***243 MEADOW STREET***	***E 0 - 1/8 (0.022 mi.)***	***A18***	***37***
NYCDOT - METROPOLITA EPA ID:: NYD987032364	***1109 METROPOLITAN AV***	***WNW 1/8 - 1/4 (0.151 mi.)***	***O123***	***441***
CON EDISON - MANHOLE EPA ID:: NYP004287686	585 MESSEROLE ST	ESE 1/8 - 1/4 (0.188 mi.)	R138	483

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON - MANHOLE EPA ID:: NYP004197893	GARDNER AVE AND METR	NE 0 - 1/8 (0.097 mi.)	F76	265
CON EDISON - MANHOLE EPA ID:: NYP004296299	***1131 GRAND STREET***	***NW 0 - 1/8 (0.123 mi.)***	***I91***	***314***
ENEQUIST CHEMICAL CO EPA ID:: NYD002028827	***100 VARICK AVE***	***S 1/8 - 1/4 (0.211 mi.)***	***T147***	***522***
CON EDISON - MANHOLE EPA ID:: NYP004287884	VARICK AVE	S 1/8 - 1/4 (0.213 mi.)	T155	559

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 09/13/2021 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONSOLIDATED PACKAGI EPA ID:: NYD986892412	***1250 METROPOLITAN AV***	***NE 0 - 1/8 (0.064 mi.)***	***F47***	***122***
WASTE MANAGEMENT OF EPA ID:: NYD982744815	***123 VARICK AVE***	***S 1/8 - 1/4 (0.146 mi.)***	***M117***	***402***
NEWTOWN CREEK SUPERF EPA ID:: NYN000206282	***NEWTOWN CRK - N LAT***	***NW 1/8 - 1/4 (0.150 mi.)***	***122***	***433***

EXECUTIVE SUMMARY

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 09/13/2021 has revealed that there are 5 RCRA-VSQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON EPA ID:: NYP004186029	***MEADOW ST & STEWART***	***E 0 - 1/8 (0.007 mi.)***	***A9***	***19***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MANHATTAN POLY BAG C EPA ID:: NYD982272627	***METROPOLITAN AVE***	***WNW 0 - 1/8 (0.059 mi.)***	***C42***	***96***
NYCDEP - GENERAL STO EPA ID:: NYR000113217	***1201 METROPOLITAN AV***	***NNW 0 - 1/8 (0.073 mi.)***	***E61***	***217***
NYC DEPT OF SANITAT EPA ID:: NYR000109116	VARICK AVE	SSW 0 - 1/8 (0.077 mi.)	H63	227
ULTIMATE TRUCK & EQU EPA ID:: NYN008029019	1157 GRAND ST	NNW 0 - 1/8 (0.117 mi.)	J87	295

Lists of state- and tribal hazardous waste facilities

NY SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the NY SHWS list, as provided by EDR, and dated 01/06/2022 has revealed that there are 15 NY SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GREENPOINT Site Code: 372971 Class Code: Significant threat to the public health or environment - action required.	***287 MASPETH AVENUE***	***NNW 1/4 - 1/2 (0.359 mi.)***	***AH215***	***988***
FORMER JAYER PLATING Site Code: 57074	***2 INGRAHAM ST***	***SSW 1/4 - 1/2 (0.472 mi.)***	***AR246***	***1130***
RAPID ARMORED CORPOR Site Code: 588258	***254 SCHOLES STREET***	***WSW 1/2 - 1 (0.543 mi.)***	***255***	***1176***
TECHNICAL METAL FINI Site Code: 57764	***214 STARR STREET***	***SSE 1/2 - 1 (0.607 mi.)***	***256***	***1180***
FORMER KLINK COSMO C Site Code: 405851 Class Code: Significant threat to the public health or environment - action required.	364 RICHARDSON STREE	NW 1/2 - 1 (0.640 mi.)	257	1183
GOODMAN BROTHERS CO	***18 DIVISION PLACE***	***NW 1/2 - 1 (0.738 mi.)***	***258***	***1186***

Site Code: 505634
Class Code: Significant threat to the public health or environment - action required.

FORMER LOMBARDY STRE	***171 LOMBARDY STREET***	***NNW 1/2 - 1 (0.756 mi.)***	***259***	***1214***
Site Code: 486951				
Class Code: Significant threat to the public health or environment - action required.				
95 LOMBARDY ST./ACME	***95 LOMBARDY ST***	***NW 1/2 - 1 (0.775 mi.)***	***260***	***1221***
Site Code: 405853				
Class Code: Significant threat to the public health or environment - action required.				
FORMER ACME STEEL PA	513 PORTER AVENUE	NNW 1/2 - 1 (0.826 mi.)	AT261	1226
Site Code: 494893				
ACME STEEL/BRASS FOU	72 ANTHONY STREET	NNW 1/2 - 1 (0.826 mi.)	AT262	1228
Site Code: 405855				
Class Code: Significant threat to the public health or environment - action required.				
TOP HAT CLEANERS	***152 GRAHAM AVE***	***WSW 1/2 - 1 (0.827 mi.)***	***263***	***1230***
Site Code: 504341				
FORMER W.L.K. CORP.	58-30 57TH STREET	ENE 1/2 - 1 (0.912 mi.)	264	1240
Site Code: 371165				
Class Code: Significant threat to the public health or environment - action required.				
CITY BARREL CO.	421-429 MEEKER STREE	WNW 1/2 - 1 (0.987 mi.)	265	1243
Site Code: 55909				

Lower Elevation	Address	Direction / Distance	Map ID	Page
VARICK AVENUE	165 VARICK AVENUE	SSW 0 - 1/8 (0.070 mi.)	H55	179
Site Code: 55914				
US ENVIRONMENTAL PRO	***C O BCF OIL REFINING***	***NNW 1/4 - 1/2 (0.351 mi.)***	***AG205***	***901***
Site Code: 56747				

Lists of state and tribal landfills and solid waste disposal facilities

NY SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the NY SWF/LF list, as provided by EDR, and dated 09/30/2021 has revealed that there are 30 NY SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GADS INC	594 SCHOLES STREET	E 1/8 - 1/4 (0.213 mi.)	Q153	556
BFI (598-636 SCHOLES	***598-636 SCHOLES STRE***	***E 1/8 - 1/4 (0.215 mi.)***	***Q157***	***563***
DURITE S&V & MAINT.	250 MORGAN AVE	W 1/4 - 1/2 (0.266 mi.)	182	750
BROWNING FERRIS	***72 SCOTT AVE***	***ESE 1/4 - 1/2 (0.310 mi.)***	***AE190***	***800***
DANGELO AUTO SALES &	582 JOHNSON AVE	SSE 1/4 - 1/2 (0.327 mi.)	192	819
COOPER TANK AND WELD	***222 MASPETH AVENUE***	***NW 1/4 - 1/2 (0.351 mi.)***	***AK207***	***911***
GREENPOINT	***287 MASPETH AVENUE***	***NNW 1/4 - 1/2 (0.359 mi.)***	***AH215***	***988***
MS POWER INC	187 MASPETH VE	NW 1/4 - 1/2 (0.422 mi.)	AN234	1098
MAGNUM BODY SHOP INC	185A MASPETH AVE	NW 1/4 - 1/2 (0.422 mi.)	AN235	1099
U. S. WASTE MANAGEME	48 KNICKERBOCKER (69	SSW 1/4 - 1/2 (0.430 mi.)	236	1099
UNIVERSAL SCRAP PROC	***27 STEWART AVE***	***SSE 1/4 - 1/2 (0.441 mi.)***	***AO238***	***1102***
UNIVERSAL USED AUTO	***1175 FLUSHING AVE***	***SSE 1/4 - 1/2 (0.480 mi.)***	***248***	***1140***
COGENT TRANSFER; LLC	***105-115 THAMES STREE***	***S 1/4 - 1/2 (0.487 mi.)***	***250***	***1154***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WMNY VARICK 1 TRANSF	***215 VARICK AVENUE***	***W 0 - 1/8 (0.015 mi.)***	***B15***	***34***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WASTE MANAGEMENT OF	***232 GARDNER AVENUE***	***NNE 1/8 - 1/4 (0.138 mi.)***	***N106***	***352***
HI-TECH RESOURCE REC	130 VARICK AVENUE	S 1/8 - 1/4 (0.138 mi.)	M108	356
COOPER RECYCLING; LL	***123 VARICK AVENUE***	***S 1/8 - 1/4 (0.146 mi.)***	***M116***	***393***
WASTE MANAGEMENT OF	1301 METROPOLITAN AV	ENE 1/8 - 1/4 (0.149 mi.)	P120	423
EASTERN TRANSFER OF	***222 MORGAN AVE***	***W 1/8 - 1/4 (0.204 mi.)***	***V144***	***512***
NEWTOWN AUTO SALES &	***1074 GRAND STREET***	***W 1/8 - 1/4 (0.211 mi.)***	***W152***	***552***
AVALANCHE CONTRACTIN	46-26 METROPOLITAN A	ENE 1/8 - 1/4 (0.227 mi.)	U166	587
CHARLES J KING INC	***1301 GRAND ST***	***NE 1/8 - 1/4 (0.230 mi.)***	***167***	***588***
METRO AUTO SALVAGE	***4600 METROPOLITAN AV***	***E 1/8 - 1/4 (0.241 mi.)***	***U175***	***691***
FRITO-LAY	***202 MORGAN AVENUE***	***WSW 1/4 - 1/2 (0.262 mi.)***	***AB181***	***747***
T & T SCRAP LLC	***340 MASPETH AVENUE***	***NNW 1/4 - 1/2 (0.343 mi.)***	***AG196***	***824***
NEW YORK RECYCLERS;	340 MASPETH AVENUE	NNW 1/4 - 1/2 (0.343 mi.)	AG197	828
BCF OIL REFINING, IN	***360 MASPETH AVENUE***	***NNW 1/4 - 1/2 (0.351 mi.)***	***AG204***	***869***
FONTANA TRANSFER STA	252 MASPETH AVENUE	NW 1/4 - 1/2 (0.359 mi.)	AK211	915
M & C TRANSFER STATI	58-26 47 STREET	NE 1/4 - 1/2 (0.445 mi.)	AP240	1107
57-00 MASPETH AVE LL	***5700 47TH ST***	***NNE 1/4 - 1/2 (0.488 mi.)***	***AS251***	***1155***

Lists of state and tribal leaking storage tanks

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 08/09/2021 has revealed that there are 40 NY LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAL OSTLUND INC	***185 RANDOLPH ST***	***SE 1/4 - 1/2 (0.253 mi.)***	***AA179***	***705***
Spill Number/Closed Date: 0212548 / 2005-12-07				
Site ID: 120041				
Spill Date: 2003-03-20				
NEO RAY LIGHTING PRO	***537 JOHNSON AVENUE***	***SSE 1/4 - 1/2 (0.283 mi.)***	***AA187***	***779***
Spill Number/Closed Date: 8806105 / 1992-10-07				
Site ID: 155588				
Spill Date: 1988-10-19				
BROWNING FERRIS	***72 SCOTT AVE***	***ESE 1/4 - 1/2 (0.310 mi.)***	***AE190***	***800***
Spill Number/Closed Date: 9703477 / 1997-06-25				
Spill Number/Closed Date: 9708693 / 2004-10-20				
Site ID: 144360				
Site ID: 144361				
Spill Date: 1997-06-20				
Spill Date: 1997-10-24				
APT COMPLEX	349 SCHOLES ST	SW 1/4 - 1/2 (0.327 mi.)	AF193	820
Spill Number/Closed Date: 0300325 / 2004-03-24				
Site ID: 117954				
Spill Date: 2003-03-12				
345 TENEYCK STREET	345 TENEYCK STREET	W 1/4 - 1/2 (0.328 mi.)	194	821
Spill Number/Closed Date: 9210082 / 1992-12-01				

Site ID: 300237
Spill Date: 1992-12-01

JOYVA CORPORATION | 53 VARICK AVE | S 1/4 - 1/2 (0.344 mi.) | AI199 | 833
Spill Number/Closed Date: 0302698 / 2003-07-23
Site ID: 303353
Spill Date: 2003-06-13

CORNISH MINI MILLS | 121 INGRAHAM ST | S 1/4 - 1/2 (0.346 mi.) | AJ201 | 865
Spill Number/Closed Date: 9600503 / 1996-11-22
Site ID: 239705
Spill Date: 1996-04-11

ROLET FOOD PRODUCTS | 70 SCOTT AVE | SE 1/4 - 1/2 (0.352 mi.) | AE208 | 912
Spill Number/Closed Date: 0109443 / 2002-01-14
Site ID: 179351
Spill Date: 2001-12-26

UNOCCUPIED WAREHOUSE | 88 PORTER AVENUE | S 1/4 - 1/2 (0.352 mi.) | AJ209 | 913
Spill Number/Closed Date: 0210928 / 2014-11-19
Site ID: 209777
Spill Date: 2003-01-31

GREENPOINT | 287 MASPETH AVENUE | NNW 1/4 - 1/2 (0.359 mi.) | AH215 | 988
Spill Number/Closed Date: 9009058 / 2003-03-04
Spill Number/Closed Date: 9211562 / 2007-02-06
Site ID: 118273
Site ID: 181619
Spill Date: 1990-11-16
Spill Date: 1993-01-07

APARTMENT BUILDING | 35 MEADOW STREET | WSW 1/4 - 1/2 (0.368 mi.) | 223 | 1050
Spill Number/Closed Date: 0601731 / 2006-08-29
Site ID: 364030
Spill Date: 2006-05-16

LEWIS FLUSHING CORP. | 1819 FLUSHING AVENUE | ESE 1/4 - 1/2 (0.369 mi.) | AM224 | 1052
Spill Number/Closed Date: 8800833 / 1993-11-05
Site ID: 288930
Spill Date: 1988-04-27

F & W WOODWORK CO | 1267 FLUSHING AVE | SE 1/4 - 1/2 (0.379 mi.) | 226 | 1055
Spill Number/Closed Date: 9308847 / 1993-10-21
Site ID: 60933
Spill Date: 1993-10-21

DERBY TEXTILE CORPOR | 41 VARICK AVENUE | S 1/4 - 1/2 (0.380 mi.) | AI227 | 1062
Spill Number/Closed Date: 9713513 / 2004-08-18
Site ID: 331363
Spill Date: 1998-03-05

EMPIRE WAREHOUSE | 1312-1324 FLUSHING A | ESE 1/4 - 1/2 (0.387 mi.) | 229 | 1087
Spill Number/Closed Date: 9903972 / 2000-08-23
Site ID: 111006
Spill Date: 1999-07-06

CORNELL BEVERAGES IN | 105 HARRISON PLACE | S 1/4 - 1/2 (0.393 mi.) | AJ230 | 1089
Spill Number/Closed Date: 0706869 / 2008-10-17
Spill Number/Closed Date: 9610865 / 2008-10-17
Site ID: 387468
Site ID: 92955
Spill Date: 2007-09-20

Spill Date: 1996-12-03

308 MAUJER ST — 308 MAUJER ST — W 1/4 - 1/2 (0.393 mi.) — 231 — 1094
Spill Number/Closed Date: 0305120 / 2006-01-31
Site ID: 144741
Spill Date: 2003-08-14

47-40 METROPOLITAN A — 47-40 METROPOLITAN A — E 1/4 - 1/2 (0.443 mi.) — 239 — 1105
Spill Number/Closed Date: 9502665 / 2000-07-21
Site ID: 330742
Spill Date: 1995-06-01

18-51 FLUSHING AVE/Q — 18-51 FLUSHING AVENU — E 1/4 - 1/2 (0.454 mi.) — AQ243 — 1110
Spill Number/Closed Date: 9100841 / 2003-03-06
Site ID: 268451
Spill Date: 1991-04-22

1884 FLUSHING AVENUE — ***1884 FLUSHING AVENUE*** — ***E 1/4 - 1/2 (0.483 mi.)*** — ***AQ249*** — ***1151***
Spill Number/Closed Date: 9307524 / 1995-03-31
Site ID: 71544
Spill Date: 1993-09-21

881-889 GRAND STREET — ***885 GRAND ST*** — ***W 1/4 - 1/2 (0.492 mi.)*** — ***254*** — ***1166***
Spill Number/Closed Date: 8901284 / 2008-07-21
Site ID: 92038
Spill Date: 1989-05-09

Lower Elevation	Address	Direction / Distance	Map ID	Page
APT BUILDING TANK	85 MEADOW STREET	WSW 0 - 1/8 (0.069 mi.)	G54	178
Spill Number/Closed Date: 0504662 / 2005-12-09 Site ID: 349596 Spill Date: 2005-07-19				
NYC DEPART OF SANITA	***VARICK AVE***	***SSW 0 - 1/8 (0.077 mi.)***	***H64***	***231***
Spill Number/Closed Date: 0305740 / 2003-10-16 Site ID: 158270 Spill Date: 2003-08-29				
SUNSHINE BISCUITS IN	***1251 METROPOLITAN AV***	***NE 0 - 1/8 (0.079 mi.)***	***F67***	***244***
Spill Number/Closed Date: 8607890 / 1987-03-25 Site ID: 110767 Spill Date: 1987-03-24				
CONSOLIDATED CARPET	1157 GRAND ST	NNW 0 - 1/8 (0.117 mi.)	J86	293
Spill Number/Closed Date: 9511303 / 2006-02-07 Site ID: 193820 Spill Date: 1995-12-07				
1213 GRAND STREET	***1213 GRAND STREET***	***N 1/8 - 1/4 (0.143 mi.)***	***L115***	***389***
Spill Number/Closed Date: 9807882 / 2002-05-15 Site ID: 290514 Spill Date: 1998-09-28				
EASTERN TRANSFER OF	***222 MORGAN AVE***	***W 1/8 - 1/4 (0.204 mi.)***	***V144***	***512***
Spill Number/Closed Date: 0009585 / 2003-08-28 Spill Number/Closed Date: 9312206 / 1994-01-17 Site ID: 302888 Site ID: 302889 Spill Date: 2000-11-21 Spill Date: 1994-01-17				
EMEQUIFT CHEMICAL CO	100 VARICK AVE	S 1/8 - 1/4 (0.211 mi.)	T149	544

Spill Number/Closed Date: 0502445 / 2006-05-31
Site ID: 346803
Spill Date: 2005-05-31

CLOSED-LACKOF RECENT — 1105 METROPOLITAN AV — WNW 1/8 - 1/4 (0.217 mi.) — W158 — 564
Spill Number/Closed Date: 8802460 / 2003-03-05
Site ID: 183945
Spill Date: 1988-06-17

1101 METROPOLITAN AV — 1101 METROPOLITAN AV — WNW 1/8 - 1/4 (0.222 mi.) — 159 — 566
Spill Number/Closed Date: 9800642 / 2006-05-17
Site ID: 190461
Spill Date: 1998-04-15

GREEN HILL — 2 REWE ST & 300 VAND — WNW 1/4 - 1/2 (0.274 mi.) — 184 — 757
Spill Number/Closed Date: 0302094 / 2006-01-31
Site ID: 191858
Spill Date: 2003-05-29

YRC BROOKLYN (187) — ***1313 GRAND ST*** — ***NE 1/4 - 1/2 (0.275 mi.)*** — ***186*** — ***759***
Spill Number/Closed Date: 1004888 / 2013-02-22
Spill Number/Closed Date: 8708981 / 1992-10-07
Site ID: 438179
Site ID: 170911
Spill Date: 2010-07-30
Spill Date: 1988-01-21

140 MORGAN AVE/BROOK — ***140 MORGAN AVENUE*** — ***SW 1/4 - 1/2 (0.308 mi.)*** — ***AD188*** — ***797***
Spill Number/Closed Date: 8910515 / 1990-02-03
Site ID: 113471
Spill Date: 1990-01-30

100 MORGAN AVENUE — 100 MORGAN AVE — SW 1/4 - 1/2 (0.338 mi.) — AD195 — 822
Spill Number/Closed Date: 9909719 / 2000-11-20
Site ID: 328581
Spill Date: 1999-11-10

FEDEX FACILITY — ***300 MASPETH AVE*** — ***NNW 1/4 - 1/2 (0.343 mi.)*** — ***AH198*** — ***828***
Spill Number/Closed Date: 0204002 / 2005-12-22
Site ID: 291369
Spill Date: 2002-07-15

BCF OIL REFINING, IN — ***360 MASPETH AVENUE*** — ***NNW 1/4 - 1/2 (0.351 mi.)*** — ***AG204*** — ***869***
Spill Number/Closed Date: 9008251 / 2003-09-02
Spill Number/Closed Date: 9112627 / 2003-09-02
Site ID: 80010
Site ID: 211456
Spill Date: 1990-09-25
Spill Date: 1992-03-11

OFFICE BUILDING — 364 MASPETH AVE — N 1/4 - 1/2 (0.361 mi.) — AL220 — 1030
Spill Number/Closed Date: 2100155 / Not Reported
Site ID: 617823
Spill Date: 2021-04-06

DITMAS OIL ASSOCIATE — ***364 MASPETH AVENUE*** — ***N 1/4 - 1/2 (0.361 mi.)*** — ***AL221*** — ***1031***
Spill Number/Closed Date: 0514281 / 2006-04-24
Site ID: 360969
Spill Date: 2006-03-14

TRANSCON LINES TERMI — ***430 MASPETH AVE*** — ***NNE 1/4 - 1/2 (0.467 mi.)*** — ***245*** — ***1116***
Spill Number/Closed Date: 9206929 / 1997-07-03

Site ID: 260707
Spill Date: 1992-09-09

ISLAND TRANS CORP | 5700 47TH STREET | NNE 1/4 - 1/2 (0.488 mi.) | AS252 | 1164
Spill Number/Closed Date: 0709978 / 2007-12-28
Site ID: 391172
Spill Date: 2007-12-18

Lists of state and tribal registered storage tanks

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, has revealed that there are 20 NY UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GRAND PETROLEUM, LLC Database: UST, Date of Government Version: 09/20/2021	1049 GRAND STREET	W 1/8 - 1/4 (0.232 mi.)	W168	600
RANDOLPH ASSOCIATES Database: UST, Date of Government Version: 09/20/2021	***165 RANDOLPH STREET***	***SE 1/8 - 1/4 (0.248 mi.)***	***AA177***	***697***

Lower Elevation	Address	Direction / Distance	Map ID	Page
VIJAX CORPORATION Database: UST, Date of Government Version: 09/20/2021	210 VARICK AVENUE	WNW 0 - 1/8 (0.024 mi.)	C19	41
RIGHT-WAY DEALER WAR Database: UST, Date of Government Version: 09/20/2021	***1202 METROPOLITAN AV***	***NNW 0 - 1/8 (0.048 mi.)***	***E32***	***71***
209 MORGAN AVE. CORP Database: UST, Date of Government Version: 09/20/2021	85 MEADOW STREET	WSW 0 - 1/8 (0.069 mi.)	G53	176
JJ KANG ENTERPRISE, Database: UST, Date of Government Version: 09/20/2021	1188 METROPOLITAN AV	NW 0 - 1/8 (0.071 mi.)	C58	184
DSNY BK DISTRICT 1/4 Database: UST, Date of Government Version: 09/20/2021	161 VARICK AVENUE	SSW 0 - 1/8 (0.077 mi.)	H65	235
SUNSHINE BISCUITS IN Database: UST, Date of Government Version: 09/20/2021	***1251 METROPOLITAN AV***	***NE 0 - 1/8 (0.079 mi.)***	***F67***	***244***
M. FINE LUMBER CO. I Database: UST, Date of Government Version: 09/20/2021	175 VARICK AVE	SW 0 - 1/8 (0.093 mi.)	G74	262
HI-TECH RESOURCE REC Database: UST, Date of Government Version: 09/20/2021	492 SCHOLES STREET	S 0 - 1/8 (0.116 mi.)	K83	281
1131 GRAND ET IAC Database: UST, Date of Government Version: 09/20/2021	1131 GRAND STREET	NW 0 - 1/8 (0.123 mi.)	I92	319
CONSOLIDATED CARPET Database: UST, Date of Government Version: 09/20/2021	1181 GRAND STREET	N 1/8 - 1/4 (0.132 mi.)	L101	333
ENGINE COMPANY 206 Database: UST, Date of Government Version: 09/20/2021	1201 GRAND STREET	N 1/8 - 1/4 (0.138 mi.)	L104	346
UNION BEER DIST. L.L Database: UST, Date of Government Version: 09/20/2021	1213-17 GRAND ST	N 1/8 - 1/4 (0.143 mi.)	L114	383

Lower Elevation	Address	Direction / Distance	Map ID	Page
1301 METROPOLITAN AV Database: UST, Date of Government Version: 09/20/2021	1301 METROPOLITAN AV	ENE 1/8 - 1/4 (0.149 mi.)	P121	424
L & H ASSOCIATES C/O Database: UST, Date of Government Version: 09/20/2021	1101-1107 METROPOLIT	WNW 1/8 - 1/4 (0.184 mi.)	O136	478
BLINN DRUG CO Database: UST, Date of Government Version: 09/20/2021	16 REWE ST	NW 1/8 - 1/4 (0.222 mi.)	X160	567
12 REWE STREET LLC Database: UST, Date of Government Version: 09/20/2021	12 REWE STREET	NW 1/8 - 1/4 (0.226 mi.)	X165	585
CHARLES J KING INC Database: UST, Date of Government Version: 09/20/2021	***1301 GRAND ST***	***NE 1/8 - 1/4 (0.230 mi.)***	***167***	***588***
8 REWE STREET, LLC Database: UST, Date of Government Version: 09/20/2021	8 REWE STREET	NW 1/8 - 1/4 (0.237 mi.)	170	627

NY MOSF UST: Major Oil Storage Facilities Database. Facilities are licensed pursuant to Article 12 of the Navigation Law, 6 NYCRR Part 610 and 17 NYCRR Part 30. These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater. Includes MOSF's licensed or closed since April 1, 1986, (responsibility was transferred from DOT on October 13, 1985) plus available data obtained from DOT facilities licensed since Article 12 became law on April 1, 1978.

A review of the NY MOSF UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 4 NY MOSF UST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BAYSIDE FUEL OIL DEP	***1100 GRAND STREET***	***WNW 1/8 - 1/4 (0.142 mi.)***	***O113***	***373***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MORGAN OIL TERMINALS	***200 MORGAN AVE***	***WSW 1/8 - 1/4 (0.237 mi.)***	***Z173***	***677***
BCF OIL REFINING, IN	***360 MASPETH AVENUE***	***NNW 1/4 - 1/2 (0.351 mi.)***	***AG204***	***869***
DITMAS OIL ASSOCIATE	***364 MASPETH AVENUE***	***N 1/4 - 1/2 (0.361 mi.)***	***AL219***	***1013***

NY CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the NY CBS list, as provided by EDR, and dated 09/20/2021 has revealed that there are 3 NY CBS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALFRED CHEMICAL CORP Facility Status: Unregulated/Closed CBS Number: 2-000023 CBS Number: 2-000037	***111 GARDNER AVE.***	***SE 1/8 - 1/4 (0.190 mi.)***	***S139***	***486***
ENEQUIST CHEMICAL CO Facility Status: Unregulated/Closed CBS Number: 2-000027	***100 VARICK AVENUE***	***S 1/8 - 1/4 (0.211 mi.)***	***T150***	***546***
METRO AUTO SALVAGE Facility Status: Unregulated/Closed	***4600 METROPOLITAN AV***	***E 1/8 - 1/4 (0.241 mi.)***	***U175***	***691***

EXECUTIVE SUMMARY

CBS Number: 2-000496

NY MOSF: These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

A review of the NY MOSF list, as provided by EDR, and dated 09/20/2021 has revealed that there are 5 NY MOSF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BAYSIDE FUEL OIL DEP	***1100 GRAND ST***	***WNW 1/8 - 1/4 (0.142 mi.)***	***O111***	***365***
Tank Status: Active Facility Id: 2-1280				
GREENPOINT	***287 MASPETH AVENUE***	***NNW 1/4 - 1/2 (0.359 mi.)***	***AH215***	***988***
Tank Status: Unregulated/Closed Facility Id: 2-2340				

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYC DEP HAZ MAT	***200 MORGAN AVENUE***	***WSW 1/8 - 1/4 (0.237 mi.)***	***Z171***	***629***
Tank Status: Inactive Facility Id: 2-1500				
BCF OIL REFINING, IN	***360 MASPETH AVENUE***	***NNW 1/4 - 1/2 (0.351 mi.)***	***AG204***	***869***
Tank Status: Inactive Facility Id: 2-2600				
DITMAS OIL ASSOCIATE	***364 MASPETH AVENUE***	***N 1/4 - 1/2 (0.361 mi.)***	***AL221***	***1031***
Tank Status: Unregulated/Closed Facility Id: 2-1340				

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, has revealed that there are 17 NY AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BFI WASTE SERVICES O	594 SCHOLES STREET	E 1/8 - 1/4 (0.213 mi.)	Q154	556
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-604450				

Lower Elevation	Address	Direction / Distance	Map ID	Page
WASTE MANAGEMENT OF	215 VARICK AVENUE	W 0 - 1/8 (0.015 mi.)	B14	30
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-605532				
WASTE MANAGEMENT OF	221 VARICK AVENUE	W 0 - 1/8 (0.045 mi.)	B31	68
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-602605				
MANHATTAN POLY BAG C	***METROPOLITAN AVE***	***WNW 0 - 1/8 (0.059 mi.)***	***C42***	***96***
Database: AST, Date of Government Version: 09/20/2021				

Facility Id: 2-248746				
METRO GARAGE	***1188 METROPOLITAN AV***	***NW 0 - 1/8 (0.071 mi.)***	***C60***	***202***
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-602411				
ULTIMATE TRUCK & EQU	1157 GRAND STREET	NNW 0 - 1/8 (0.117 mi.)	J88	309
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-612699				
ENGINE COMPANY 206	1201 GRAND STREET	N 1/8 - 1/4 (0.138 mi.)	L105	349
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-601787				
WASTE MANAGEMENT OF	232 GARDNER AVENUE	NNE 1/8 - 1/4 (0.138 mi.)	N107	354
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-602602				
WASTE MANAGEMENT OF	123 VARICK AVENUE	S 1/8 - 1/4 (0.146 mi.)	M118	412
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-602618				
ALFRED CHEMICAL CORP	***111 GARDNER AVE.***	***SE 1/8 - 1/4 (0.190 mi.)***	***S139***	***486***
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-000037 Facility Id: 2-000023				
ROLLING FRITO-LAY SA	222 MORGAN AVENUE	W 1/8 - 1/4 (0.204 mi.)	V143	510
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-612410				
ENEQUIST CHEMICAL	100 VARICK AVENUE	S 1/8 - 1/4 (0.211 mi.)	T148	543
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-233072				
ENEQUIST CHEMICAL CO	***100 VARICK AVENUE***	***S 1/8 - 1/4 (0.211 mi.)***	***T150***	***546***
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-000027				
NEWTOWN USED AUTO PA	1074 GRAND STREET	W 1/8 - 1/4 (0.211 mi.)	W151	550
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-610198				
12 REWE STREET LLC	12 REWE STREET	NW 1/8 - 1/4 (0.226 mi.)	X164	583
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-608670				
CAPITAL AUTO SALVAGE	4600 METROPOLITAN AV	E 1/8 - 1/4 (0.241 mi.)	U174	687
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-608207				
METRO AUTO SALVAGE	***4600 METROPOLITAN AV***	***E 1/8 - 1/4 (0.241 mi.)***	***U175***	***691***
Database: AST, Date of Government Version: 09/20/2021 Facility Id: 2-000496				

NY CBS AST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the NY CBS AST list, as provided by EDR, and dated 01/01/2002 has revealed that there are

2 NY CBS AST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALFRED CHEMICAL CORP	***111 GARDNER AVE.***	***SE 1/8 - 1/4 (0.190 mi.)***	***S139***	***486***
Facility Status: 2				
Facility Status: 1				
CBS Number: 2-000023				
CBS Number: 2-000037				
ENEQUIST CHEMICAL CO	***100 VARICK AVE***	***S 1/8 - 1/4 (0.211 mi.)***	***T147***	***522***
Facility Status: 1				
Facility Status: 1				
CBS Number: 2-000027				

NY MOSF AST: Major Oil Storage Facilities Database. Facilities are licensed pursuant to Article 12 of the Navigation Law, 6 NYCRR Part 610 and 17 NYCRR Part 30. These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater. Includes MOSF's licensed or closed since April 1, 1986, (responsibility was transferred from DOT on October 13, 1985) plus available data obtained from DOT facilities licensed since Article 12 became law on April 1, 1978.

A review of the NY MOSF AST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 4 NY MOSF AST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BAYSIDE FUEL OIL DEP	***1100 GRAND STREET***	***WNW 1/8 - 1/4 (0.142 mi.)***	***O113***	***373***
Facility Status: 1				
Facility Status: 1				
Facility Status: 4				
GREENPOINT ENERGY FA	***287 MASPETH AVENUE***	***NNW 1/4 - 1/2 (0.359 mi.)***	***AH212***	***916***
Facility Status: 3				
Facility Status: 3				

Lower Elevation	Address	Direction / Distance	Map ID	Page
BCF OIL REFINING, IN	***360 MASPETH AVENUE***	***NNW 1/4 - 1/2 (0.351 mi.)***	***AG204***	***869***
Facility Status: 2				
Facility Status: 1				
DITMAS OIL ASSOCIATE	***364 MASPETH AVENUE***	***N 1/4 - 1/2 (0.361 mi.)***	***AL219***	***1013***
Facility Status: 1				
Facility Status: 3				

State and tribal institutional control / engineering control registries

NY ENG CONTROLS: Environmental Remediation sites that have engineering controls in place.

A review of the NY ENG CONTROLS list, as provided by EDR, and dated 01/06/2022 has revealed that there are 3 NY ENG CONTROLS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CORNISH KNIT GOODS/C	***121 INGRAHAM ST./89***	***S 1/4 - 1/2 (0.346 mi.)***	***AJ200***	***834***

Site Code: 58133

88 INGRAHAM REALTY C	***88 INGRAHAM ST***	***SSW 1/4 - 1/2 (0.380 mi.)***	***228***	***1065***

Site Code: 58534

Lower Elevation	Address	Direction / Distance	Map ID	Page
FRITO LAY	***202-218 MORGAN AVENU***	***WSW 1/4 - 1/2 (0.262 mi.)***	***AB180***	***712***

Site Code: 407689

Environmental Remediation sites that have institutional controls in place.

A review of the NY INST CONTROL list, as provided by EDR, and dated 01/06/2022 has revealed that there are 3 NY INST CONTROL sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CORNISH KNIT GOODS/C	***121 INGRAHAM ST./89***	***S 1/4 - 1/2 (0.346 mi.)***	***AJ200***	***834***

Site Code: 58133

88 INGRAHAM REALTY C	***88 INGRAHAM ST***	***SSW 1/4 - 1/2 (0.380 mi.)***	***228***	***1065***

Site Code: 58534

Lower Elevation	Address	Direction / Distance	Map ID	Page
FRITO LAY	***202-218 MORGAN AVENU***	***WSW 1/4 - 1/2 (0.262 mi.)***	***AB180***	***712***

Site Code: 407689

Lists of state and tribal voluntary cleanup sites

NY VCP: Voluntary Cleanup Agreements. The voluntary remedial program uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

A review of the NY VCP list, as provided by EDR, has revealed that there are 6 NY VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CORNISH KNIT GOODS/C	***121 INGRAHAM ST./89***	***S 1/4 - 1/2 (0.346 mi.)***	***AJ200***	***834***

Database: VCP, Date of Government Version: 01/06/2022
Site Code: 58133

GREENPOINT	***287 MASPETH AVENUE***	***NNW 1/4 - 1/2 (0.359 mi.)***	***AH215***	***988***

Database: VCP, Date of Government Version: 01/06/2022
Site Code: 57149

88 INGRAHAM REALTY C	***88 INGRAHAM ST***	***SSW 1/4 - 1/2 (0.380 mi.)***	***228***	***1065***

Database: VCP, Date of Government Version: 01/06/2022
Site Code: 58534

FORMER JAYER PLATING	***2 INGRAHAM ST***	***SSW 1/4 - 1/2 (0.472 mi.)***	***AR246***	***1130***

Database: VCP, Date of Government Version: 01/06/2022
Site Code: 56868

Lower Elevation	Address	Direction / Distance	Map ID	Page
JOYVA VACANT LOT	498 JOHNSON AVENUE	S 1/4 - 1/2 (0.309 mi.)	AC189	799

Database: VCP, Date of Government Version: 01/06/2022

Site Code: 56948

BCF, 360 MASPETH AVE Database: VCP, Date of Government Version: 01/06/2022 Site Code: 56908	360 MASPETH AVENUE,	NNW 1/4 - 1/2 (0.351 mi.)	AG206	910

Lists of state and tribal brownfield sites

NY BROWNFIELDS: Brownfields Site List

A review of the NY BROWNFIELDS list, as provided by EDR, and dated 01/06/2022 has revealed that there are 6 NY BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
255 RANDOLPH STREET Site Code: 534911	***255 RANDOLPH ST***	***ESE 1/4 - 1/2 (0.325 mi.)***	***AE191***	***816***
GREENPOINT Site Code: 57389	***287 MASPETH AVENUE***	***NNW 1/4 - 1/2 (0.359 mi.)***	***AH215***	***988***
FORMER UNIVERSAL SCR Site Code: 505316	***1181 FLUSHING AVENUE***	***SSE 1/4 - 1/2 (0.458 mi.)***	***AO244***	***1111***
FORMER JAYER PLATING Site Code: 567066 Site Code: 435675	***2 INGRAHAM ST***	***SSW 1/4 - 1/2 (0.472 mi.)***	***AR246***	***1130***

Lower Elevation	Address	Direction / Distance	Map ID	Page
FRITO LAY Site Code: 407689	***202-218 MORGAN AVENU***	***WSW 1/4 - 1/2 (0.262 mi.)***	***AB180***	***712***
46-81 METROPOLITAN A Site Code: 623115	46-81 METROPOLITAN A	E 1/4 - 1/2 (0.363 mi.)	222	1048

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

Registered Recycling Facility List from the Department of Environmental Conservation.

A review of the NY SWRCY list, as provided by EDR, and dated 09/30/2021 has revealed that there are 12 NY SWRCY sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALLOCCO RECYCLING LT	***575 SCHOLES STREET***	***ESE 1/8 - 1/4 (0.172 mi.)***	***Q134***	***473***
MESEROLE STREET RECY	568 MESEROLE STREET	ESE 1/8 - 1/4 (0.208 mi.)	R145	517
BFI (598-636 SCHOLES	***598-636 SCHOLES STRE***	***E 1/8 - 1/4 (0.215 mi.)***	***Q157***	***563***
ALLOCCO RECYCLING (6	606 MESEROLE STREET	ESE 1/8 - 1/4 (0.241 mi.)	176	696
BROWNING FERRIS	***72 SCOTT AVE***	***ESE 1/4 - 1/2 (0.310 mi.)***	***AE190***	***800***
NATIONWIDE SCRAP LLC	18-19 FLUSHING AVENU	ESE 1/4 - 1/2 (0.404 mi.)	AM232	1095

Lower Elevation	Address	Direction / Distance	Map ID	Page
HI TECH HOLDINGS LLC	492 SCHOLES STREET	S 0 - 1/8 (0.116 mi.)	K82	280

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHARLES J KING INC	***1301 GRAND ST***	***NE 1/8 - 1/4 (0.230 mi.)***	***167***	***588***
WASTE MANAGEMENT OF	***101 VARICK AVENUE***	***S 1/4 - 1/2 (0.266 mi.)***	***AC183***	***751***
COTOIA ENTERPRISES	46-26 METROPOLITAN A	E 1/4 - 1/2 (0.274 mi.)	185	758
NMS WASTE PAPER	***58-35 47TH STREET***	***NE 1/4 - 1/2 (0.452 mi.)***	***AP241***	***1107***
GPB WASTE NY DBA NY/	58-35 47TH STREET	NE 1/4 - 1/2 (0.452 mi.)	AP242	1109

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 08/09/2021 has revealed that there are 37 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VAULT 434	221 MEADOW STREET	0 - 1/8 (0.000 mi.)	A4	10
Spill Number/Closed Date: 0207116 / 2003-04-29				
Site ID: 149972				
Spill Date: 2002-10-09				
VAULT V560	221-41 MEADOW ST	0 - 1/8 (0.000 mi.)	A5	12
Spill Number/Closed Date: 0508686 / 2008-01-10				
Site ID: 354319				
Spill Date: 2005-10-20				
UNKNOWN - DRUM RUN	MEADOW STREET & STEW	E 0 - 1/8 (0.007 mi.)	A11	25
Spill Number/Closed Date: 1704150 / 2017-09-01				
Site ID: 555372				
Spill Date: 2017-07-27				
MANHOLE 57877	MEADOW ST/STEWART AV	E 0 - 1/8 (0.007 mi.)	A13	29
Spill Number/Closed Date: 9912167 / 2002-03-19				
Site ID: 195609				
Spill Date: 2000-01-21				
DIELECTRIC FLUID GOI	243 MEADOW STREET	E 0 - 1/8 (0.022 mi.)	A17	36
Spill Number/Closed Date: 0606519 / 2006-09-07				
Site ID: 369880				
Spill Date: 2006-09-07				
SB 55893	200 STEWART AVE	ESE 0 - 1/8 (0.034 mi.)	D25	55
Spill Number/Closed Date: 0403838 / 2004-10-04				
Site ID: 118871				
Spill Date: 2004-07-10				
CASILINO CONTRACTING	160 STEWART AVE	SE 0 - 1/8 (0.116 mi.)	K85	291
Spill Number/Closed Date: 9705382 / 1997-08-04				
Spill Number/Closed Date: 9706947 / 1997-11-13				
Site ID: 231976				
Site ID: 117602				
Spill Date: 1997-08-04				
Spill Date: 1997-09-11				

Lower Elevation	Address	Direction / Distance	Map ID	Page
TO ROADWAY	IFO 210 VARICK AVE	WNW 0 - 1/8 (0.024 mi.)	C20	43

Spill Number/Closed Date: 1411768 / 2015-03-17 Site ID: 505566 Spill Date: 2015-03-17				
COMMERCIAL BUILDING Spill Number/Closed Date: 1205626 / 2015-09-22 Site ID: 468588 Spill Date: 2011-07-20	210-222 VARICK AVENU	WNW 0 - 1/8 (0.024 mi.)	C21	44
NEW TOWN CREEK Spill Number/Closed Date: 0708123 / 2007-10-25 Site ID: 388965 Spill Date: 2007-10-25	225 VARICK AVE	WNW 0 - 1/8 (0.028 mi.)	C24	54
VARICK ST & MEADOW S Spill Number/Closed Date: 9606739 / 1998-05-13 Site ID: 324811 Spill Date: 1996-08-26	VARICK ST & MEADOW S	SW 0 - 1/8 (0.038 mi.)	B26	57
TRANSFORMER #2279/EM Spill Number/Closed Date: 0912190 / 2010-04-01 Site ID: 425064 Spill Date: 2010-02-22	231 VARICK ST	WNW 0 - 1/8 (0.041 mi.)	C28	58
ROADWAY - PARKING SP Spill Number/Closed Date: 1900848 / 2019-04-30 Site ID: 586692 Spill Date: 2019-04-24	222 VARRICK AVE	NW 0 - 1/8 (0.044 mi.)	C29	60
STORAGE BUILDING Spill Number/Closed Date: 9107650 / 1992-11-19 Spill Number/Closed Date: 9514664 / 1996-02-20 Site ID: 180407 Site ID: 180408 Spill Date: 1991-10-16 Spill Date: 1996-02-15	1194 METROPOLITAN AV	NW 0 - 1/8 (0.055 mi.)	C36	83
METRO Spill Number/Closed Date: 0206511 / 2003-10-20 Site ID: 99221 Spill Date: 2002-09-23	1188 METROPOLITAN AV	NW 0 - 1/8 (0.056 mi.)	C38	87
TRUCK IN CREEK Spill Number/Closed Date: 0708122 / 2007-11-06 Site ID: 388964 Spill Date: 2007-10-25	221 ZARICK AVENUE	WNW 0 - 1/8 (0.057 mi.)	C39	88
MANHATTAN POLYBAG CO Spill Number/Closed Date: 0609662 / 2009-07-28 Site ID: 373955 Spill Date: 2006-11-22	***1150 METROPOLITAN AV***	***WNW 0 - 1/8 (0.059 mi.)***	***C40***	***89***
LOT Spill Number/Closed Date: 1905844 / 2019-09-24 Site ID: 593894 Spill Date: 2019-09-05	1150 METROPOLITAN AV	WNW 0 - 1/8 (0.059 mi.)	C43	109
METROPOLITAN STEWART Spill Number/Closed Date: 9802640 / 1998-06-02 Site ID: 267906 Spill Date: 1998-05-30	METROPOLITAN STEWART	N 0 - 1/8 (0.065 mi.)	E48	165
1201 METROPOLITAN AV	1201 METROPOLITAN AV	NNW 0 - 1/8 (0.070 mi.)	E57	183

Spill Number/Closed Date: 0407964 / 2006-01-26
Site ID: 332541
Spill Date: 2004-10-18

METRO GARAGE	***1188 METROPOLITAN AV***	***NW 0 - 1/8 (0.071 mi.)***	***C60***	***202***

Spill Number/Closed Date: 0011310 / 2003-09-15
Spill Number/Closed Date: 0206038 / 2004-03-16
Spill Number/Closed Date: 0711153 / 2008-01-22
Spill Number/Closed Date: 0302832 / 2012-01-18
Site ID: 173941
Site ID: 173942
Site ID: 392573
Site ID: 99222
Spill Date: 2001-01-17
Spill Date: 2002-09-10
Spill Date: 2008-01-22
Spill Date: 2003-06-17

NYC DEPART OF SANITA	***VARICK AVE***	***SSW 0 - 1/8 (0.077 mi.)***	***H64***	***231***

Spill Number/Closed Date: 0201226 / 2006-03-29
Spill Number/Closed Date: 0204630 / 2003-02-13
Site ID: 164054
Site ID: 164055
Spill Date: 2002-05-02
Spill Date: 2002-08-01

GRAND STREET BRIDGE	METROPOLITAN AVE	WNW 0 - 1/8 (0.078 mi.)	I66	242

Spill Number/Closed Date: 9610924 / 1998-04-28
Spill Number/Closed Date: 9708562 / 1997-10-22
Site ID: 89187
Site ID: 89188
Spill Date: 1996-12-04
Spill Date: 1997-10-22

MANHOLE #15350	VARICK AVE & METROPO	NW 0 - 1/8 (0.082 mi.)	I68	248

Spill Number/Closed Date: 9906203 / 1999-11-10
Site ID: 64194
Spill Date: 1999-08-24

ROADWAY	METROPOLITAN AVE & V	NW 0 - 1/8 (0.082 mi.)	I69	249

Spill Number/Closed Date: 0811297 / 2009-01-14
Site ID: 408867
Spill Date: 2009-01-13

46-25 METROPOLITAN A	46025 METROPOLITAN A	NW 0 - 1/8 (0.087 mi.)	J72	256

Spill Number/Closed Date: 9204008 / 2013-10-28
Site ID: 84865
Spill Date: 1992-07-07

COMMERCIAL PROPERTY	175 VARICK AVE	SW 0 - 1/8 (0.093 mi.)	G73	257

Spill Number/Closed Date: 0601947 / 2011-11-18
Site ID: 364315
Spill Date: 2006-05-23

ROADWAY	METROPOLITAN/GARDNER	NE 0 - 1/8 (0.095 mi.)	F75	264

Spill Number/Closed Date: 9706343 / 1997-08-25
Site ID: 101342
Spill Date: 1997-08-25

NEW TOWN CREEK	GRANT & STEWART ST	N 0 - 1/8 (0.115 mi.)	L81	279

Spill Number/Closed Date: 9905180 / 1999-08-26

Site ID: 316312
Spill Date: 1999-07-30

ULTIMATE TRUCK & EQU Spill Number/Closed Date: 1611187 / 2017-07-24 Site ID: 542056 Spill Date: 2017-03-07	1157 GRAND STREET	NNW 0 - 1/8 (0.117 mi.)	J89	311
MANHOLE 1299 Spill Number/Closed Date: 0503634 / 2005-08-31 Site ID: 348262 Spill Date: 2005-06-27	1131 GRAND ST	NW 0 - 1/8 (0.123 mi.)	I93	321
VAULT 2597 Spill Number/Closed Date: 0312422 / 2004-07-15 Spill Number/Closed Date: 9702070 / 2003-02-24 Spill Number/Closed Date: 9710120 / 1997-12-05 Site ID: 299538 Site ID: 299539 Site ID: 299540 Spill Date: 2004-02-08 Spill Date: 1997-05-17 Spill Date: 1997-12-02	METROPOLITAN AV	WNW 0 - 1/8 (0.124 mi.)	I94	323
NEWTOWN CREEK Spill Number/Closed Date: 0011304 / 2003-12-23 Site ID: 274022 Spill Date: 2001-01-17	METROPOLITAN BRIDGE	WNW 0 - 1/8 (0.124 mi.)	I95	326
MANHOLE #36370 Spill Number/Closed Date: 9906205 / 1999-11-10 Site ID: 237077 Spill Date: 1999-08-24	GRAND ST/METROPOLITA	WNW 0 - 1/8 (0.124 mi.)	I96	327
METROPOLITAIN AVE & Spill Number/Closed Date: 9706334 / 1997-08-25 Site ID: 322309 Spill Date: 1997-08-25	METROPOLITAIN AVE &	WNW 0 - 1/8 (0.124 mi.)	I97	328
METROPOLITAN AVE BRI Spill Number/Closed Date: 0205135 / 2002-08-16 Site ID: 237049 Spill Date: 2002-08-15	METROPOLITAN AVENUE	WNW 0 - 1/8 (0.124 mi.)	I98	329
METROPOLITAN AVE BRI Spill Number/Closed Date: 0402660 / 2006-08-25 Site ID: 244729 Spill Date: 2004-06-04	OVER ENGLISH KILLS C	WNW 0 - 1/8 (0.124 mi.)	I99	330

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2021 has revealed that

there are 37 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON EPA ID:: NYP004738902	***STEWART AVE & MEADOW***	***E 0 - 1/8 (0.007 mi.)***	***A12***	***26***
CON EDISON EPA ID:: NYP004738878	***STEWART AVE & STAGG***	***SE 0 - 1/8 (0.054 mi.)***	***D34***	***79***
CON EDISON EPA ID:: NYP004738597	***179 STEWART AVE***	***SSE 0 - 1/8 (0.069 mi.)***	***D50***	***167***
NYC DEP EPA ID:: NYP003662772	***165 STEWART AVE***	***SSE 0 - 1/8 (0.105 mi.)***	***K80***	***276***
BAYSIDE FUEL OIL DEP EPA ID:: NYD980526420	***1100 GRAND ST***	***WNW 1/8 - 1/4 (0.142 mi.)***	***O110***	***360***
GREENWALD INDUSTRIES EPA ID:: NYD986931533	***1340 METROPOLITAN AV***	***E 1/8 - 1/4 (0.203 mi.)***	***U142***	***504***
ACME ALBERT STEEL DR EPA ID:: NYD000390716	***1050 GRAND ST***	***W 1/8 - 1/4 (0.224 mi.)***	***W163***	***575***
B P PRODUCTS NORTH A EPA ID:: NYR000126615	***1049 GRAND ST***	***W 1/8 - 1/4 (0.232 mi.)***	***W169***	***616***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON EPA ID:: NYP004779559	VARICK AVE & MEADOW	WSW 0 - 1/8 (0.005 mi.)	B7	15
CON EDISON SERVICE B EPA ID:: NYP004532883	210 VARICK AVE	WNW 0 - 1/8 (0.024 mi.)	C23	51
WASTE MANAGEMENT OF EPA ID:: NYR000133298	***221 VARICK AVE***	***W 0 - 1/8 (0.045 mi.)***	***B30***	***61***
RIGHT-WAY DEALER WAR EPA ID:: NYR000025478	***1202 METROPOLITAN AV***	***NNW 0 - 1/8 (0.048 mi.)***	***E32***	***71***
MANHATTAN POLY BAG EPA ID:: NYD098227267	***1150 METROPOLITAN AV***	***WNW 0 - 1/8 (0.059 mi.)***	***C41***	***93***
AID AUTO STORES, INC EPA ID:: NYD058581497	***1150 METROPOLITAN AV***	***WNW 0 - 1/8 (0.059 mi.)***	***C44***	***110***
ALJO AUTO ELECTRIC C EPA ID:: NY0000575225	1250 METROPOLITAN AV	NE 0 - 1/8 (0.064 mi.)	F45	115
PATSON CORP EPA ID:: NYN008019051	***85 MEADOW ST***	***WSW 0 - 1/8 (0.069 mi.)***	***G52***	***172***
BUY RITE GARAGE INC EPA ID:: NYU005001680	***1188 METROPOLITAN AV***	***NW 0 - 1/8 (0.071 mi.)***	***C59***	***197***
SUNSHINE BISCUITS EPA ID:: NYD078159936	***1251 METROPOLITAN AV***	***NE 0 - 1/8 (0.086 mi.)***	***F71***	***251***
CON EDISON EPA ID:: NYP004186102	GARDNER AVE & METROP	NE 0 - 1/8 (0.097 mi.)	F77	268
CON EDISON EPA ID:: NYP004161857	***SCHOLES & VARICK***	***S 0 - 1/8 (0.103 mi.)***	***H79***	***272***
SYNTHETIC PROTECTIVE EPA ID:: NYD001282631	***492 SCHOLES ST***	***S 0 - 1/8 (0.116 mi.)***	***K84***	***285***
CONSOLIDATED CARPET	***1181 GRAND ST***	***N 1/8 - 1/4 (0.132 mi.)***	***L102***	***338***

EPA ID:: NYR000028340				
NYC FIRE DEPT ENGINE EPA ID:: NYR000040360	***1201 GRAND ST***	***N 1/8 - 1/4 (0.138 mi.)***	***L103***	***342***
HI-TECH RESOURCE REC EPA ID:: NYN008014441	130 VARICK AVE	S 1/8 - 1/4 (0.138 mi.)	M109	358
MIONE TRANSIT MIX EPA ID:: NYD157709486	***1301 METROPOLITAN AV***	***ENE 1/8 - 1/4 (0.149 mi.)***	***P119***	***419***
CON EDISON EPA ID:: NYP004741005	***VARICK AND MESEROLE***	***S 1/8 - 1/4 (0.152 mi.)***	***M124***	***450***
CON EDISON EPA ID:: NYP004839324	GARDNER AVE & GRAND	NNE 1/8 - 1/4 (0.154 mi.)	N127	457
CON EDISON EPA ID:: NYP004779476	***VARICK ST & MESEROLE***	***S 1/8 - 1/4 (0.155 mi.)***	***M132***	***466***
CON EDISON EPA ID:: NYP004779625	VARICK ST & MESEROLE	S 1/8 - 1/4 (0.155 mi.)	M133	470
CON ED - V 4628 EPA ID:: NYP004005286	***SCOTT AVE & METRO AV***	***ENE 1/8 - 1/4 (0.179 mi.)***	***P135***	***475***
ALFRED CHEMICAL CORP EPA ID:: NYR000062570	***111 GARDNER AVE***	***SE 1/8 - 1/4 (0.190 mi.)***	***S140***	***494***
WOOD-TEX PANELS INC EPA ID:: NYD001641489	***108 VARICK AVE***	***SSE 1/8 - 1/4 (0.199 mi.)***	***T141***	***498***
CON EDISON SERVICE B EPA ID:: NYP004330460	***ONDERDONK AVE & METR***	***ENE 1/8 - 1/4 (0.209 mi.)***	***U146***	***518***
A&I REALTY EPA ID:: NYR000233767	***20 REWE ST***	***NNW 1/8 - 1/4 (0.224 mi.)***	***Y161***	***569***
CHARLES J KING INC EPA ID:: NYD012573648	***1301 GRAND ST***	***NE 1/8 - 1/4 (0.230 mi.)***	***167***	***588***
MORGAN OIL TERMINALS EPA ID:: NYD074359472	***200 MORGAN AVE***	***WSW 1/8 - 1/4 (0.237 mi.)***	***Z173***	***677***
NEW YORK TELEPHONE C EPA ID:: NYD980755680	***15 REWE ST***	***NNW 1/8 - 1/4 (0.249 mi.)***	***Y178***	***700***

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 10/20/2021 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEWTOWN CREEK SUPERF	***NEWTOWN CRK - N LAT***	***NW 1/8 - 1/4 (0.150 mi.)***	***122***	***433***

FUELS PROGRAM: This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

A review of the FUELS PROGRAM list, as provided by EDR, and dated 08/13/2021 has revealed that there is 1 FUELS PROGRAM site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BAYSIDE FUEL OIL DEP Company Seq ID: 4980 Facility ID: 82643	***1100 GRAND ST***	***WNW 1/8 - 1/4 (0.142 mi.)***	***O112***	***372***

NY HSWDS: The List includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity The latest version of the study is frozen in time. The sites on the study will not automatically be made superfund sites, rather each site will be further evaluated for listing in the registry. So overtime they will be added to the registry or not.

A review of the NY HSWDS list, as provided by EDR, and dated 01/01/2003 has revealed that there are 7 NY HSWDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GREENPOINT ENERGY FA Facility Id: HS2012	***287 MASPETH AVENUE***	***NNW 1/4 - 1/2 (0.359 mi.)***	***AH212***	***916***
BUG, MASPETH GATE ST	285 MASPETH AVENUE	NNW 1/4 - 1/2 (0.360 mi.)	AH216	1010
MORGAN TERMINAL	200 MORGAN AVE	SW 1/4 - 1/2 (0.371 mi.)	225	1053
BUG, EQUITY WORKS Facility Id: HS2009	MASPETH AND MORGAN A	WNW 1/4 - 1/2 (0.434 mi.)	AN237	1100
FORMER JAYER PLATING Facility Id: HS2044	2 INGRAHAM STREET	SSW 1/4 - 1/2 (0.472 mi.)	AR247	1139

Lower Elevation	Address	Direction / Distance	Map ID	Page
VARICK AVENUE Facility Id: HS2043	165 VARICK AVENUE	SSW 0 - 1/8 (0.070 mi.)	H56	181
TANKS-A-LOT COMPANY	362 MASPETH AVENUE	N 1/4 - 1/2 (0.348 mi.)	AG203	868

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 01/01/2019 has revealed that there are 49 NY MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON EPA ID: NYP004186029	***MEADOW ST & STEWART***	***E 0 - 1/8 (0.007 mi.)***	***A9***	***19***
CON EDISON EPA ID: NYP004738902	STEWART AVE & MEADOW	E 0 - 1/8 (0.007 mi.)	A10	24
CONSOLIDATED EDISON	221 241 MEADOW ST V4	E 0 - 1/8 (0.019 mi.)	A16	35

EPA ID: NYP004103461				
CON EDISON - MANHOLE	***243 MEADOW STREET***	***E 0 - 1/8 (0.022 mi.)***	***A18***	***37***
EPA ID: NYP004297362				
CON EDISON	STEWART AVE & STAGG	SE 0 - 1/8 (0.054 mi.)	D33	78
EPA ID: NYP004738878				
CON EDISON	179 STEWART AVE	SSE 0 - 1/8 (0.069 mi.)	D51	171
EPA ID: NYP004738597				
CON EDISON - MANHOLE	169 GARDNER AVE	E 0 - 1/8 (0.085 mi.)	70	251
EPA ID: NYP004907632				
NYC DEP	***165 STEWART AVE***	***SSE 0 - 1/8 (0.105 mi.)***	***K80***	***276***
EPA ID: NYP003662772				
NYCDOT - METROPOLITA	***1109 METROPOLITAN AV***	***WNW 1/8 - 1/4 (0.151 mi.)***	***O123***	***441***
EPA ID: NYD987032364				
CON EDISON	585 MESSEROLE ST	ESE 1/8 - 1/4 (0.188 mi.)	R137	481
EPA ID: NYP004287686				
GREENWALD INDUSTRIES	***1340 METROPOLITAN AV***	***E 1/8 - 1/4 (0.203 mi.)***	***U142***	***504***
EPA ID: NYD986931533				
ACME ALBERT STEEL DR	***1050 GRAND ST***	***W 1/8 - 1/4 (0.224 mi.)***	***W163***	***575***
EPA ID: NYD000390716				
B P PRODUCTS NORTH A	***1049 GRAND ST***	***W 1/8 - 1/4 (0.232 mi.)***	***W169***	***616***
EPA ID: NYR000126615				

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
CON EDISON	VARICK AVE & MEADOW	WSW 0 - 1/8 (0.005 mi.)	B6	13
EPA ID: NYP004779559				
CON EDISON	210 VARICK AVE	WNW 0 - 1/8 (0.024 mi.)	C22	50
EPA ID: NYP004532883				
CON EDISON	OPP 180 VARICK AVE	SSW 0 - 1/8 (0.039 mi.)	B27	58
EPA ID: NYP004779555				
WASTE MANAGEMENT OF	***221 VARICK AVE***	***W 0 - 1/8 (0.045 mi.)***	***B30***	***61***
EPA ID: NYR000133298				
RIGHT-WAY DEALER WAR	***1202 METROPOLITAN AV***	***NNW 0 - 1/8 (0.048 mi.)***	***E32***	***71***
EPA ID: NYR000025478				
CON EDISON	FRONT OF 1196 METROP	NNW 0 - 1/8 (0.056 mi.)	C37	85
EPA ID: NYP004595328				
MANHATTAN POLYBAG CO	***1150 METROPOLITAN AV***	***WNW 0 - 1/8 (0.059 mi.)***	***C40***	***89***
EPA ID: NYD982272627				
MANHATTAN POLY BAG	***1150 METROPOLITAN AV***	***WNW 0 - 1/8 (0.059 mi.)***	***C41***	***93***
EPA ID: NYD098227267				
CONSOLIDATED PACKAGI	***1250 METROPOLITAN AV***	***NE 0 - 1/8 (0.064 mi.)***	***F46***	***118***
EPA ID: NYD986892412				
NYCDEP - GENERAL STO	***1201 METROPOLITAN AV***	***NNW 0 - 1/8 (0.073 mi.)***	***E61***	***217***
EPA ID: NYR000113217				
NYC DEPART OF SANITA	***VARICK AVE***	***SSW 0 - 1/8 (0.077 mi.)***	***H64***	***231***
EPA ID: NYR000109116				
SUNSHINE BISCUITS	***1251 METROPOLITAN AV***	***NE 0 - 1/8 (0.086 mi.)***	***F71***	***251***

EPA ID: NYD078159936				
CONSOLIDATED EDISON EPA ID: NYP004197893	GARDNER AVE & METROP	NE 0 - 1/8 (0.097 mi.)	F78	271
CON EDISON EPA ID: NYP004161857	***SCHOLES & VARICK***	***S 0 - 1/8 (0.103 mi.)***	***H79***	***272***
SYNTHETIC PROTECTIVE EPA ID: NYD001282631 EPA ID: NYP000776369	***492 SCHOLES ST***	***S 0 - 1/8 (0.116 mi.)***	***K84***	***285***
CON EDISON EPA ID: NYP004717112	FRONT OF 140 VARICK	S 0 - 1/8 (0.118 mi.)	M90	313
CON EDISON - MANHOLE EPA ID: NYP004296299	***1131 GRAND STREET***	***NW 0 - 1/8 (0.123 mi.)***	***I91***	***314***
CON EDISON EPA ID: NYP004710216	228 GARDNER AVE	NE 1/8 - 1/4 (0.129 mi.)	N100	332
CONSOLIDATED CARPET EPA ID: NYR000028340	***1181 GRAND ST***	***N 1/8 - 1/4 (0.132 mi.)***	***L102***	***338***
NYC FIRE DEPT ENGINE EPA ID: NYR000040360	***1201 GRAND ST***	***N 1/8 - 1/4 (0.138 mi.)***	***L103***	***342***
COOPER RECYCLING; LL EPA ID: NYP000889022	***123 VARICK AVENUE***	***S 1/8 - 1/4 (0.146 mi.)***	***M116***	***393***
WASTE MANAGEMENT OF EPA ID: NYD982744815	***123 VARICK AVE***	***S 1/8 - 1/4 (0.146 mi.)***	***M117***	***402***
NEWTOWN CREEK SUPERF EPA ID: NYN000206282	***NEWTOWN CRK - N LAT***	***NW 1/8 - 1/4 (0.150 mi.)***	***122***	***433***
CON EDISON EPA ID: NYP004839324	GARDNER AVE & GRAND	NNE 1/8 - 1/4 (0.154 mi.)	N125	454
CON EDISON EPA ID: NYP004779625	W SIDE VARICK ST	S 1/8 - 1/4 (0.155 mi.)	M129	461
CON EDISON EPA ID: NYP004779476	VARICK ST & MESEROLE	S 1/8 - 1/4 (0.155 mi.)	M131	465
CON ED - V 4628 EPA ID: NYP004005286	***SCOTT AVE & METRO AV***	***ENE 1/8 - 1/4 (0.179 mi.)***	***P135***	***475***
WOOD-TEX PANELS INC EPA ID: NYD001641489	***108 VARICK AVE***	***SSE 1/8 - 1/4 (0.199 mi.)***	***T141***	***498***
CON EDISON SERVICE B EPA ID: NYP004330460	***ONDERDONK AVE & METR***	***ENE 1/8 - 1/4 (0.209 mi.)***	***U146***	***518***
ENEQUIST CHEMICAL CO EPA ID: NYD002028827	***100 VARICK AVE***	***S 1/8 - 1/4 (0.211 mi.)***	***T147***	***522***
CON EDISON EPA ID: NYP004287884	VARICK AVE	S 1/8 - 1/4 (0.213 mi.)	T156	562
A&I REALTY EPA ID: NYR000233767	20 REWE ST	NNW 1/8 - 1/4 (0.224 mi.)	Y162	575
NYC DEP HAZ MAT EPA ID: NYP003662657	***200 MORGAN AVENUE***	***WSW 1/8 - 1/4 (0.237 mi.)***	***Z171***	***629***
CON EDISON EPA ID: NYP004718086	FRONT OF 200 MORGAN	WSW 1/8 - 1/4 (0.237 mi.)	Z172	676
MORGAN OIL TERMINALS	***200 MORGAN AVE***	***WSW 1/8 - 1/4 (0.237 mi.)***	***Z173***	***677***

EPA ID: NYD074359472

NEW YORK TELEPHONE C EPA ID: NYD980755680	***15 REWE ST***	***NNW 1/8 - 1/4 (0.249 mi.)***	***Y178***	***700***

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 06/30/2018 has revealed that there are 2 PA MANIFEST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WASTE MANAGEMENT OF Generator EPA Id: NYD982744815	***123 VARICK AVE***	***S 1/8 - 1/4 (0.146 mi.)***	***M117***	***402***
ENEQUIST CHEMICAL CO Generator EPA Id: NYD002028827	***100 VARICK AVE***	***S 1/8 - 1/4 (0.211 mi.)***	***T147***	***522***

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2018 has revealed that there are 13 NJ MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON EPA Id: NYP004738902	STEWART AVE & MEADOW	E 0 - 1/8 (0.007 mi.)	A8	18
CON EDISON EPA Id: NYP004186029	***MEADOW ST & STEWART***	***E 0 - 1/8 (0.007 mi.)***	***A9***	***19***
CON EDISON EPA Id: NYP004738878	STEWART AVE & STAGG	SE 0 - 1/8 (0.054 mi.)	D35	82
CON EDISON EPA Id: NYP004738597	179 STEWART AVE	SSE 0 - 1/8 (0.069 mi.)	D49	166
NYCDOT - METROPOLITA EPA Id: NYD987032364	***1109 METROPOLITAN AV***	***WNW 1/8 - 1/4 (0.151 mi.)***	***O123***	***441***
B P PRODUCTS NORTH A EPA Id: NYR000126615	***1049 GRAND ST***	***W 1/8 - 1/4 (0.232 mi.)***	***W169***	***616***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONSOLIDATED PACKAGI EPA Id: NYD986892412	***1250 METROPOLITAN AV***	***NE 0 - 1/8 (0.064 mi.)***	***F47***	***122***
NYC DEP EPA Id: NYR000113217	1201 METROPOLITAN AV	NNW 0 - 1/8 (0.073 mi.)	E62	224
WASTE MANAGEMENT OF EPA Id: NYD982744815	***123 VARICK AVE***	***S 1/8 - 1/4 (0.146 mi.)***	***M117***	***402***
CON EDISON EPA Id: NYP004839324	GARDNER AVE & GRAND	NNE 1/8 - 1/4 (0.154 mi.)	N126	455
CON EDISON EPA Id: NYP004779625	W SIDE VARICK ST	S 1/8 - 1/4 (0.155 mi.)	M128	460
CON EDISON	VARICK & MESEROLE ST	S 1/8 - 1/4 (0.155 mi.)	M130	462

EPA Id: NYP004741039
EPA Id: NYP004741005

ENEQUIST CHEMICAL CO	***100 VARICK AVE***	***S 1/8 - 1/4 (0.211 mi.)***	***T147***	***522***

EPA Id: NYD002028827

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there are 3 EDR MGP sites within approximately 1 mile of the target property.

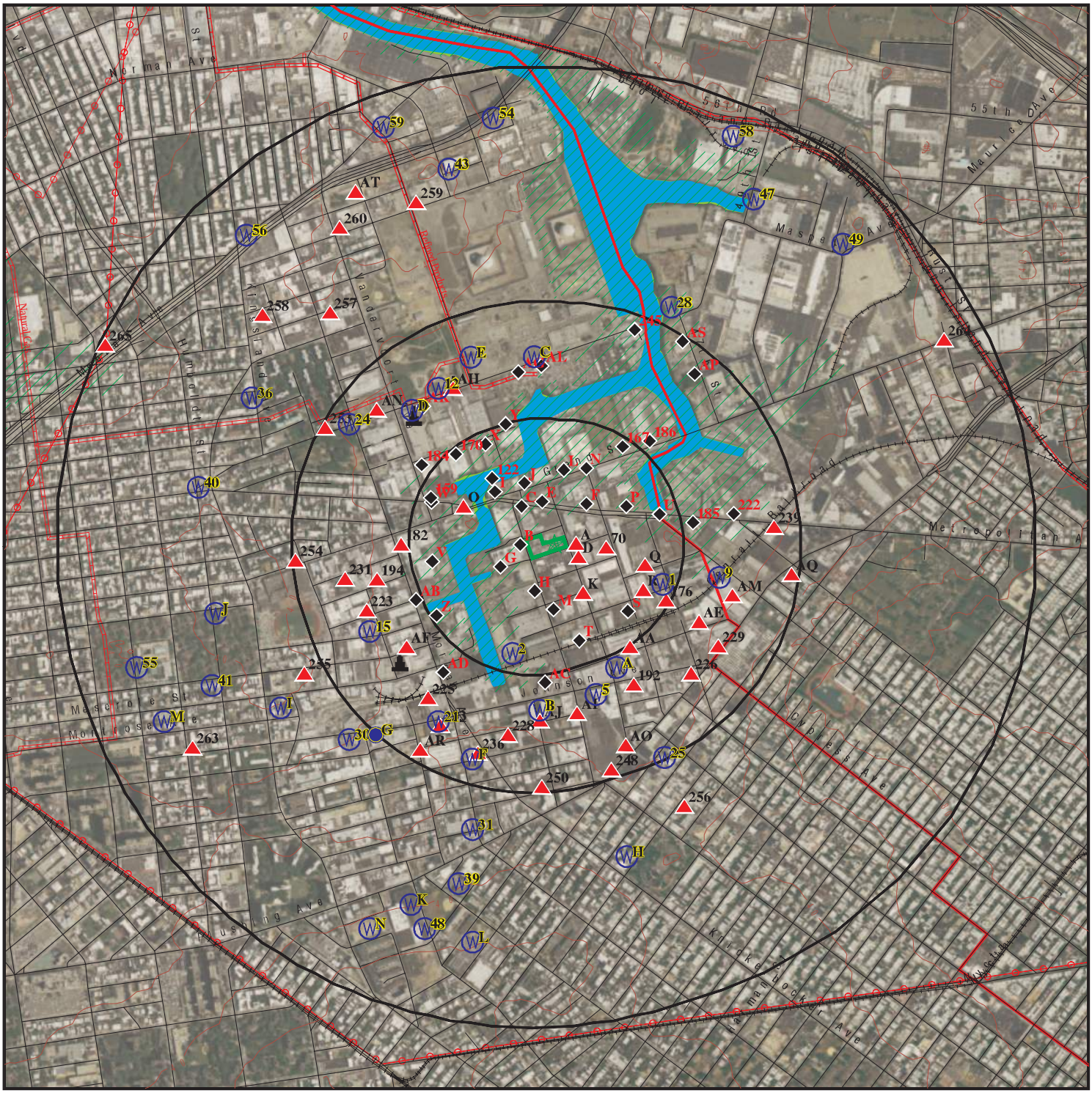
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EQUITY WORKS	MASPETH AND VANDERVO	NW 1/4 - 1/2 (0.353 mi.)	AK210	915
GREENPOINT	287 MASPETH AVENUE	NNW 1/4 - 1/2 (0.359 mi.)	AH213	986
SCHOLES ST. STATION	SCHOLES ST 7 BOGART	SW 1/4 - 1/2 (0.360 mi.)	AF218	1013

EXECUTIVE SUMMARY

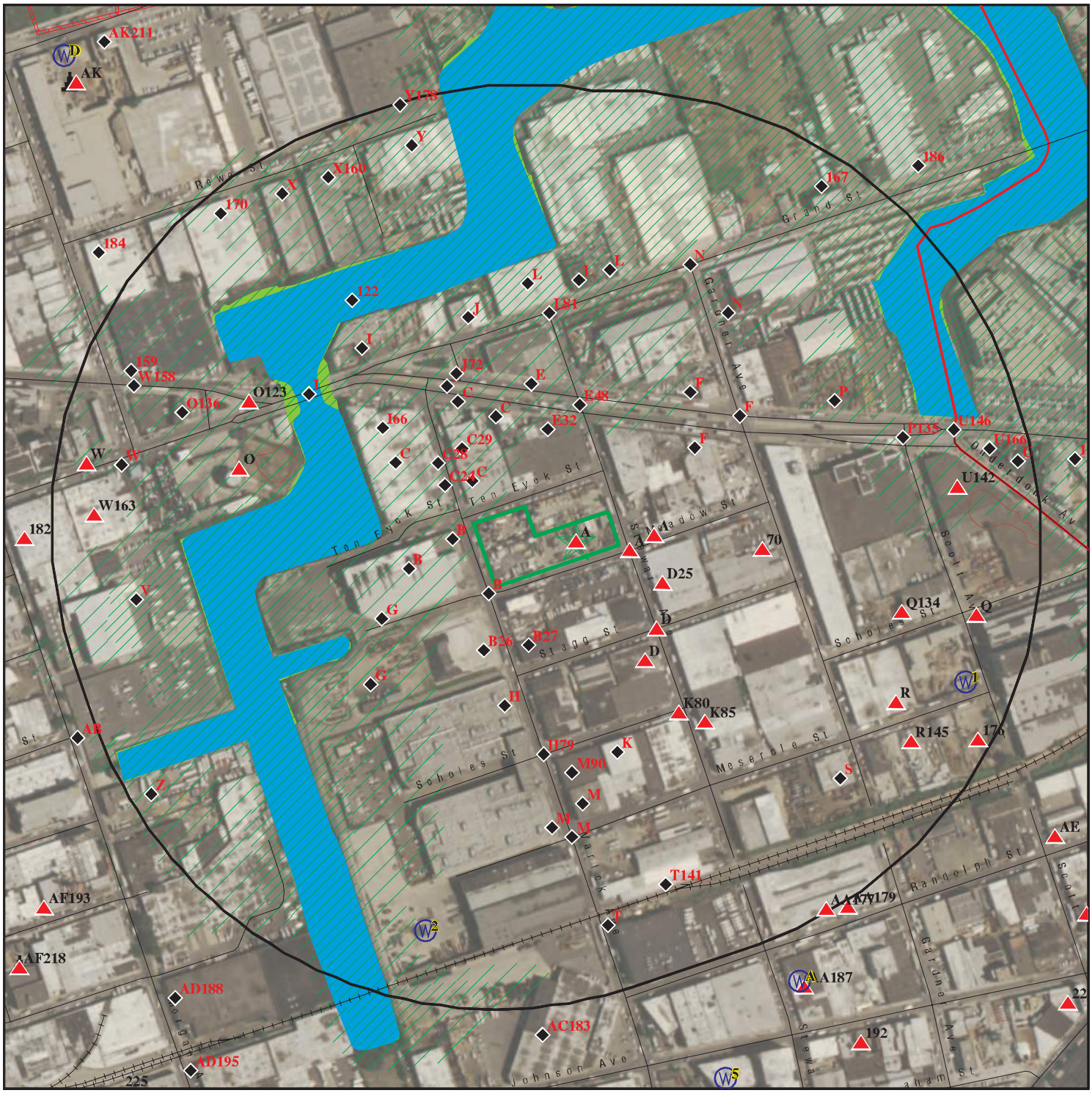
Due to poor or inadequate address information, the following sites were not mapped. Count: 12 records.

Site Name	Database(s)
MEEKER AVENUE PLUME	Proposed NPL, SEMS
BOX STREET GW	NY SHWS
INGRAHAM STREET SIDEWALK GW	NY SHWS
NORTH OF CORNISH KNIT GOODS	NY SHWS
JONES MOTORS	NY SHWS
MEEKER AVENUE PLUME TRACKDOWN	NY SHWS
MORGAN OIL TERMINAL	NY SHWS
K - SCHOLES ST. STATION	NY SHWS, NY BROWNFIELDS
WOLFF-ALPORT CHEMICAL COMPANY	NY SHWS
A&G USED AUTO PART D/B/A PARTS ARE	NY SWF/LF
EQUITY WORKS	NY VCP
SCHOLES ST. STATION	NY VCP

OVERVIEW MAP - 6826547.2S


Norman Ave
Meserole St
Montrose Ave
Flushing Ave
Maspeth Ave
Metropolitan Ave
Vanderveer Pl
Johnson
Irving
Cypress Ave
Evergreen Ave
Review Ave
Nassau Expy
Long Island Rail Road
Brooklyn Queens Expy
58th Rd
55th Dr
55th Ave
Maurice Ave
Penelope St
Putnam Ave
Woodbine St
Myrtle Ave
Cooper Ave
Forest Ave
Fresh Pond Rd
Cornelia St
Onderdonk Ave
Knickerbocker Ave
Wyckoff Ave
Starr St
Stanhope St
Bleecker St
Linden Blvd
Jefferson St
Troutman St
Grandview Ave
Irving Ave
Hancock St
Suydam St
Himrod St
Menahan St
Varet St
Weirfield St
Wilson Ave
Palmetto St
Madison St
Dekalb Ave
Bushwick Ave
Aberdeen St
Hart St
Central Ave
Cypress Hills St
Fairview Ave
Onderdonk Ave
Seneca Ave

DETAIL MAP - 6826547.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 213 Meadow Street	CLIENT: Langan Engineering
ADDRESS: 213 Meadow Street Brooklyn NY 11237	CONTACT: Molly Mattern INQUIRY #: 6826547.2s
LAT/LONG: 40.713041 / 73.928211	DATE: January 20, 2022 11:30 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	1	0	0	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	1	1	NR	NR	2
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	5	NR	NR	5
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		3	4	NR	NR	NR	7
RCRA-SQG	0.250		1	2	NR	NR	NR	3
RCRA-VSQG	0.250		5	0	NR	NR	NR	5
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
NY SHWS	1.000		1	0	3	11	NR	15
Lists of state and tribal landfills and solid waste disposal facilities								
NY SWF/LF	0.500	1	1	11	18	NR	NR	31
Lists of state and tribal leaking storage tanks								
INDIAN LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY LTANKS	0.500		4	5	31	NR	NR	40
NY HIST LTANKS	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
NY UST	0.250		9	11	NR	NR	NR	20
NY CBS UST	0.250		0	0	NR	NR	NR	0
NY MOSF UST	0.500		0	2	2	NR	NR	4
NY CBS	0.250		0	3	NR	NR	NR	3
NY MOSF	0.500		0	2	3	NR	NR	5
NY AST	0.250		5	12	NR	NR	NR	17
NY CBS AST	0.250		0	2	NR	NR	NR	2
NY MOSF AST	0.500		0	1	3	NR	NR	4
INDIAN UST	0.250		0	0	NR	NR	NR	0
NY TANKS	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
NY RES DECL	0.125		0	NR	NR	NR	NR	0
NY ENG CONTROLS	0.500		0	0	3	NR	NR	3
NY INST CONTROL	0.500		0	0	3	NR	NR	3
Lists of state and tribal voluntary cleanup sites								
NY VCP	0.500		0	0	6	NR	NR	6
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
NY BROWNFIELDS	0.500		0	0	6	NR	NR	6
NY ERP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
NY SWRCY	0.500		1	5	6	NR	NR	12
NY SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
NY DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
NY PFAS	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Local Lists of Registered Storage Tanks								
NY HIST UST	0.250		0	0	NR	NR	NR	0
NY HIST AST	0.001		0	NR	NR	NR	NR	0
Local Land Records								
NY LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
NY Spills	0.125	1	37	NR	NR	NR	NR	38
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
NY SPILLS 90	0.125		0	NR	NR	NR	NR	0
NY SPILLS 80	0.125		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		17	20	NR	NR	NR	37
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	1	0	0	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	1	0	NR	NR	NR	NR	1
DOCKET HWC	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ECHO	0.001	1	0	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	1	NR	NR	NR	1
NY AIRS	0.001		0	NR	NR	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0
NY DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NY E DESIGNATION	0.125		0	NR	NR	NR	NR	0
NY Financial Assurance	0.001		0	NR	NR	NR	NR	0
NY HSWDS	0.500		1	0	6	NR	NR	7
NY MANIFEST	0.250		25	24	NR	NR	NR	49
PA MANIFEST	0.250		0	2	NR	NR	NR	2
NJ MANIFEST	0.250		6	7	NR	NR	NR	13
NY SPDES	0.001		0	NR	NR	NR	NR	0
NY VAPOR REOPENED	0.500		0	0	0	NR	NR	0
NY UIC	0.001		0	NR	NR	NR	NR	0
NY COOLING TOWERS	0.001		0	NR	NR	NR	NR	0
NY LEAD	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	3	0	NR	3
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
NY RGA HWS	0.001		0	NR	NR	NR	NR	0
NY RGA LF	0.001	1	0	NR	NR	NR	NR	1
- Totals --		5	116	117	99	11	0	348

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **CASTLE SANITATION CORPORATION** **FINDS** **1026001446**
Target **213 MEADOW STREET** **ECHO** **N/A**
Property **BROOKLYN, NY 11237**

Site 1 of 14 in cluster A

Actual: **14 ft.**

FINDS:
Registry ID: 110070625464

Click Here:

Environmental Interest/Information System:
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1026001446
Registry ID:	110070625464
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110070625464
Name:	CASTLE SANITATION CORPORATION
Address:	213 MEADOW STREET
City,State,Zip:	BROOKLYN, NY 11237

A2 **CASALINO INTERIOR DEMOLITION** **NY RGA LF** **S114955461**
Target **213 MEADOW ST** **N/A**
Property **BROOKLYN, NY**

Site 2 of 14 in cluster A

Actual: **14 ft.**

RGA LF:

2012	CASALINO INTERIOR DEMOLITION	213 MEADOW ST
2011	CASALINO INTERIOR DEMOLITION	213 MEADOW ST
2010	CASALINO INTERIOR DEMOLITION	213 MEADOW ST
2009	CASALINO INTERIOR DEMOLITION	213 MEADOW ST
2008	CASALINO INTERIOR DEMOLITION	213 MEADOW ST
2007	CASALINO INTERIOR DEMOLITION	213 MEADOW ST
2006	CASALINO INTERIOR DEMOLITION	213 MEADOW ST
2005	CASALINO INTERIOR DEMOLITION	213 MEADOW ST
2004	CASALINO INTERIOR DEMOLITION	213 MEADOW ST

A3 **CASALINO INTERIOR DEMOLITION** **NY SWF/LF** **S105841899**
Target **213 MEADOW ST** **NY Spills** **N/A**
Property **BROOKLYN, NY 11237**

Site 3 of 14 in cluster A

Actual: **14 ft.**

SWF/LF:

Name:	CASALINO INTERIOR DEMOLITION
Address:	213 MEADOW ST
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE

CASALINO INTERIOR DEMOLITION (Continued) **S105841899**

Region Code:	2
Phone Number:	7184782292
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	CASALINO; ANTHONY OWNER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[24W33]
Active:	No
East Coordinate:	590550
North Coordinate:	4507452
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6104-00009
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

SPILLS:

Name:	213 MEADOW ST.
Address:	213 MEADOW ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9315532 / 1994-03-31
Facility ID:	9315532
Facility Type:	ER
DER Facility ID:	177864
Site ID:	214676
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	2401
Spill Date:	1994-03-31
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	1994-03-31
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	1994-03-31
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0

CASALINO INTERIOR DEMOLITION (Continued) **S105841899**

Date Entered In Computer:	1994-04-05
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	WHALECO
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"SPILL CONTAINED ON CONCRETE PIER - CLEAN UP IN PROGRESS BY WHALECO."

All Materials:

Site ID:	214676
Operable Unit ID:	997568
Operable Unit:	01
Material ID:	387281
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-5.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

A4
< 1/8
1 ft.

VAULT 434 **NY Spills** **S106008225**
221 MEADOW STREET **N/A**
BROOKLYN, NY

Site 4 of 14 in cluster A

Relative: Higher
Actual: 14 ft.

SPILLS:

Name:	VAULT 434
Address:	221 MEADOW STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0207116 / 2003-04-29
Facility ID:	0207116
Facility Type:	ER
DER Facility ID:	127541
Site ID:	149972
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	2401
Spill Date:	2002-10-09
Investigator:	KMFOLEY
Referred To:	Not reported
Reported to Dept:	2002-10-09
CID:	204
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0

VAULT 434 (Continued) **S106008225**

Date Entered In Computer:	2002-10-09
Spill Record Last Update:	2003-04-29
Spiller Name:	CALLER
Spiller Company:	CON ED
Spiller Address:	4 IRVING PLACE
Spiller Company:	001
Contact Name:	BILL MURPHY
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was FOLEY E2MIS NOTES 145505 10/9/02 - 1310 G. PALLADINO - 46015 - O.S. - BQE, REPORTS FINDING 10 GALS OF DIELECTRIC FLUID MIXED WITH SOIL ON THE CONCRETE FLOOR OF V 434 (5B27). OIL LEAKED FROM THE GROUND HANDLE & SECONDARY BUSHING OF THE TRANSFORMER. SPILL IS CONTAINED. NO SEWERS OR WATERWAYS AFFECTED. NO FIRE OR SMOKE INVOLVED. NO INJURIES RELATED TO THE SPILL. NO PRIVATE PROPERTY AFFECTED. NO SEWER CONNECTIONS. NO SUMPS. NO LARGE CRACKS IN THE STRUCTURE. HISTORICAL PCB COUNT OF THE UNIT IS 6 PPM FROM 1/18/99. PCB SAMPLE TAKEN. CHAIN OF CUSTODY FORM # CC09724 FILLED OUT AND MARKED 'E' (WITHIN 8 HRS) PRIORITY, CLEANUP TO BEGIN AS 50 - 499. J. GAGLIO OF E.H. & S. WAS INFORMED. TANKER ORDERED. EPA # ORDERED. ENV. OPS. INFORMED. TJ - 50495 UPDATE 10/9/02 15:55 HRS -- J. GAGLIO OF EH&S REPORTS TANKER IS REMOVING OIL FROM TRANSFORMER. NO SUMP IN STRUCTURE. WALKIN VAULT WITH OIL ON PAD -- NO ACTIVE LEAK. CLEANUP BEING DONE 50-499 PPM. THIS WILL BE A PARTIAL CLEANUP DUE TO ASBESTOS ABATEMENT REQUIRED IN STRUCTURE. UPDATE: 10/9/02 - 1654 W. THORNGREN - EQ GP, REPORTS TANKER REMOVED 425 GALS OF OIL FROM THE TRANSFORMER. TRANSFORMER HOLDS 427 GALS. 2 GALS LEAKED INTO VAULT. UPDATE 10/9/02 16:55 HRS. -- J. GAGLIO OF EH&S REPORTS CORPORATE TRANSPORATION WILL FAX MANIFEST TO E.R.T. TONIGHT. ROBERTO DIAZ OF D.E.P. REQUESTED COPIES OF E2MIS REPORT, CHEM LAB RESULTS, CLEANUP DOCUMENTATION AND DOCUMENTATION REGARDING ASBESTOS ABATEMENT AND TRANSFORMER REMOVAL. ENV. TAG TO REMAIN PENDING ASBESTOS ABATEMENT AND REMOVAL OF TRANSFORMER. SAMPLE WAS SENT TO CHEM LAB ABOUT 20 MIN. AGO. D.E.P. IS STILL ON SITE AT THIS TIME. - UPDATE 10/9/02 18:40 HRS. -- JOHN GAGLIO OF REPORTS TINO FERNANDEZ OF BROOKLYN ENV. OPS. GAVE D.E.P. OUR CLEANUP PLAN WHICH ISTAKE UP ANY SOIL AND CLEAN DOWN UNTIL THEY SEE NO MORE SIGNS OF OIL AND DOUBLE WASH THE SECTION OF PAD AFFECTED BY 2-GAL. SPILL. EVERYTHING TO BE HANDLED AS 50-499 PPM DUE TO SAMPLE GETTING OUT LATE TO CHEM LAB. UPDATE @ 1857 HRS 10/9 LAB RESULTS RECEIVED SEQ #02-09499-001 @ 4PPM. UPDATE @ 1930 HRS 10/9 C.FERNANDEZ REPORTS CREW SCRAPPED & WASHED SIDE OF TRANSFORMER WITH RAGS & BIO GEN, DUG OUT 6 OF OIL SOAKED DIRT CREATING ONE BARREL OF WASTE. PLACED MAT & BALONIES AROUND TRANSFORMER TO PREVENT FURTHER LEAKAGE. PARTIAL CLEANUP COMPLETED. COMPLETION PENDING ASBESTOS ABATMENT & REMOVAL OF TRANSFORMER. DEBRIS BROUGHT BACK UNDER ONE TRIP RULE. UPDATE 11/25/02 AT MORNING MEETING EQUIP PLANNER PETE MLADINICH STATED THE ASBESTOS ABATEMENT WAS COMPLETED OVER THE WEEKEND. UPDATE 11/26/02 17:40 HRS. -- G. PALLADINO OF NETWORKS REPORTS TRANSFORMER WAS REMOVED FROM VAULT. JOB NOW PENDING FINAL CLEANUP. UPDATE: 11/26/02 - 2200 R. ESPONDA - ENV. OPS., REPORTS CLEANUP COMPLETED BY DOUBLE WASHING STRUCTURE WITH BIO GEN 760. WASTE PRODUCT REMOVED WITH VACTOR. NO SUMP."
Remarks:	"CON ED 145505 OIL LEAKED FROM TRANSFORMER - HISTORICAL PCB RECORD - TEST DATE 1/18/99 - NEW SAMPLE TAKEN "

All Materials:

Site ID:	149972
Operable Unit ID:	859934
Operable Unit:	01
Material ID:	517701

VAULT 434 (Continued) **S106008225**

Material Code:	0541A
Material Name:	dielectric fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

A5 **VAULT V560** **NY Spills** **S107416222**
221-41 MEADOW ST **N/A**
< 1/8 **BROOKLYN, NY**
1 ft.

Site 5 of 14 in cluster A

Relative: **Higher**
Actual: **14 ft.**

SPILLS:

Name:	VAULT V560
Address:	221-41 MEADOW ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0508686 / 2008-01-10
Facility ID:	0508686
Facility Type:	ER
DER Facility ID:	301659
Site ID:	354319
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	2401
Spill Date:	2005-10-20
Investigator:	GDBREEN
Referred To:	Not reported
Reported to Dept:	2005-10-20
CID:	77
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2005-10-20
Spill Record Last Update:	2008-01-10
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	Not reported
Contact Name:	ERT DESK'
DEC Memo:	"01/10/08 - See eDocs for Con Ed report detailing cleanup and closure. 161566. 10/20/05 - 0145. A. WALKER - 33596 - FOD, WHILE PLACING GROUNDS ON FDR 5B28 (ACCT: C3242), REPORTS FINDING APPROX 1 QT OF AN UNKNOWN OIL MIXED WITH LEAVES ON THE CONCRETE FLOOR OF WALK IN V560. SPILL IS CONTAINED. NO SEWERS OR WATERWAYS AFFECTED. NO FIRE OR SMOKE INVOLVED. NO INJURIES. NO PRIVATE PROPERTY AFFECTED. NO SEWER CONNECTIONS. NO SUMPS OR DRAINS. NO PARKING RESTRICTIONS POSTED. HISTORICAL PCB COUNT OF UNIT IS 2 PPM DTD 2/18/03. BQE WILL

VAULT V560 (Continued) **S107416222**

BE ASKED TO PRESSURE TEST UNIT IN MORNING. ENV TAG # 48743 PLACED IN STRUCTURE. PCB SAMPLE TAKEN. CHAIN OF CUSTODY FORM # DD18918 FILLED OUT AND MARKED 'E' PRIORITY. CLEANUP PENDING LAB RESULT. TJ - 50495 "

Remarks: "1/4 qt of unkn oil in vault onto concrete floor. clean-up pending lab results. con ed ref 161566. no to 5 qusetions."

All Materials:

Site ID:	354319
Operable Unit ID:	1111738
Operable Unit:	01
Material ID:	2101785
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

B6 **CON EDISON** **NY MANIFEST** **S121967312**
WSW **VARICK AVE & MEADOW ST** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.005 mi.
29 ft. **Site 1 of 8 in cluster B**

Relative: **Lower**

Actual: **12 ft.**

NY MANIFEST:

Name:	CON EDISON
Address:	VARICK AVE & MEADOW ST
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP004779559
Facility Status:	Not reported
Location Address 1:	W SIDE VARICK ST & STAGG ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004779559
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported

CON EDISON (Continued) **S121967312**

Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	05/06/2015
Trans1 Recv Date:	05/06/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/07/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004779559
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002624292GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	5000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

B7 **CON EDISON** **RCRA NonGen / NLR** **1019324939**
WSW **VARICK AVE & MEADOW ST** **NYP004779559**
< 1/8 **BROOKLYN, NY 11237**
0.005 mi.
29 ft. **Site 2 of 8 in cluster B**

Relative: **Lower**
Actual: **12 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20150506
Handler Name:	CON EDISON	
Handler Address:		VARICK AVE & MEADOW ST
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYP004779559
Contact Name:		THOMAS TEELING
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		212-460-3770
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		IRVING PL 15TH FL NE
Mailing City,State,Zip:		NEW YORK, NY 10003
Owner Name:		Not reported
Owner Type:		Not reported
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

CON EDISON (Continued) **1019324939**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160909
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2015

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CONSOLIDATED EDISON CO OF NY INC
Legal Status:	Private
Date Became Current:	20150506
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PL
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CONSOLIDATED EDISON CO OF NY INC
Legal Status:	Private

CON EDISON (Continued) **1019324939**

Date Became Current: 20150506
Date Ended Current: Not reported
Owner/Operator Address: 4 IRVING PL
Owner/Operator City,State,Zip: NEW YORK, NY 10003
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20160205
Handler Name: CON EDISON - MANHOLE 43886
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150506
Handler Name: CON EDISON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150506
Handler Name: CON EDISON
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 221122
NAICS Description: ELECTRIC POWER DISTRIBUTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

CON EDISON (Continued) **1019324939**

Evaluation Action Summary:
Evaluations: No Evaluations Found

A8 **CON EDISON** **NJ MANIFEST** **S120667930**
East **STEWART AVE & MEADOW AVE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.007 mi.
37 ft. **Site 6 of 14 in cluster A**

Relative:
Higher

Actual:
14 ft.

NJ MANIFEST:

EPA Id:	NYP004738902
Mail Address:	IRVING PL, 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002610323GBF
EPA ID:	NYP004738902
Date Shipped:	2/26/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported

CON EDISON (Continued) **S120667930**

Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

A9 **CON EDISON** **RCRA-VSQG 1014396338**
East **MEADOW ST & STEWART AVE** **NY MANIFEST NYP004186029**
< 1/8 **BROOKLYN, NY 11237** **NJ MANIFEST**
0.007 mi.
37 ft. **Site 7 of 14 in cluster A**

Relative: **Higher**
Actual: **14 ft.**

RCRA-VSQG:

Date Form Received by Agency:		20160601
Handler Name:	CON EDISON	
Handler Address:		MEADOW ST & STEWART AVE
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYP004186029
Contact Name:		CAROLINE ISKANDER
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		718-666-4714
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Private
Federal Waste Generator Description:		Conditionally Exempt Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		4 IRVING PL, RM 828
Mailing City,State,Zip:		NEW YORK, NY 10003
Owner Name:		Not reported
Owner Type:		Not reported
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No

CON EDISON (Continued) **1014396338**

Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160707
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20090723
Handler Name: CON EDISON	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

CON EDISON (Continued) **1014396338**

Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160601
Handler Name: CON EDISON
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

NY MANIFEST:
Name: CONSOLIDATED EDISON
Address: MEADOW ST & STEWART AVE
City,State,Zip: BROOKLYN, NY 11237
Country: USA
EPA ID: NYP004186029
Facility Status: Not reported
Location Address 1: MH57876 MEADOW ST & STEWART
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: Not reported
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004186029
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: FRANKLYN MURRAY
Mailing Address 1: 4 IRVING PL RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124602808

CON EDISON (Continued) **1014396338**

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	08/10/2009
Trans1 Recv Date:	08/10/2009
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/12/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004186029
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	000894851GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H111
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

NJ MANIFEST:

EPA Id:	NYP004186029
Mail Address:	4 IRVING PL, RM 828
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported

CON EDISON (Continued) **1014396338**

Contact:	CAROLINE ISKANDER
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	000894851GBF
EPA ID:	NYP004186029
Date Shipped:	08/10/2009
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/10/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/12/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111

CON EDISON (Continued) **1014396338**

Quantity: 100 G

A10 **CON EDISON** **NY MANIFEST** **S117740710**
East **STEWART AVE & MEADOW AVE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.007 mi.
37 ft. **Site 8 of 14 in cluster A**

Relative:
Higher

Actual:
14 ft.

NY MANIFEST:

Name:	CON EDISON
Address:	STEWART AVE & MEADOW AVE
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP004738902
Facility Status:	Not reported
Location Address 1:	NWC STAGG ST & MEADOW AVE
Code:	BP
Location Address 2:	M 57877
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004738902
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE - 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	02/26/2015
Trans1 Recv Date:	02/26/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/04/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004738902
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported

CON EDISON (Continued) **S117740710**

Manifest Tracking Number:	002610323GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	2000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

A11 **UNKNOWN - DRUM RUN** **NY Spills** **S121100931**
East **MEADOW STREET & STEWART AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.007 mi.
37 ft. **Site 9 of 14 in cluster A**

Relative: **Higher**
Actual: **14 ft.**

SPILLS:

Name:	UNKNOWN - DRUM RUN
Address:	MEADOW STREET & STEWART AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1704150 / 2017-09-01
Facility ID:	1704150
Facility Type:	ER
DER Facility ID:	508940
Site ID:	555372
DEC Region:	2
Spill Cause:	Abandoned Drums
Spill Class:	C2
SWIS:	2401
Spill Date:	2017-07-27
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2017-07-27
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial

UNKNOWN - DRUM RUN (Continued) **S121100931**

Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2017-07-27
Spill Record Last Update:	2017-09-01
Spiller Name:	VICTOR
Spiller Company:	UNKNOWN
Spiller Address:	MEADOW STREET
Spiller Company:	999
Contact Name:	VICTOR
DEC Memo:	"07/27/17-Hiralkumar Patel. 2:56 PM:- spoke with Victor. he mentioned that multiple smaller containers of waste oil were overpacked into one 55 gal drum. drum is along Meadow St sidewalk between Stewart Ave and Gardner Ave. 9/1/17- DEC Piper - Drum not found as part of 9/1/17 drum run. Spill closed. "
Remarks:	"55 gallon drum needs pick up. material has been packed."

All Materials:

Site ID:	555372
Operable Unit ID:	1303411
Operable Unit:	01
Material ID:	2309994
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

A12 **CON EDISON** **RCRA NonGen / NLR** **1018279092**
East **STEWART AVE & MEADOW AVE** **FINDS** **NYP004738902**
< 1/8 **BROOKLYN, NY 11237** **ECHO**
0.007 mi.
37 ft. **Site 10 of 14 in cluster A**

Relative: **Higher**
Actual: **14 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20150226
Handler Name:	CON EDISON	
Handler Address:		STEWART AVE & MEADOW AVE
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYP004738902
Contact Name:		THOMAS TEELING
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		212-460-3770
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified

CON EDISON (Continued) **1018279092**

Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	IRVING PL, 15TH FL NE
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No

CON EDISON (Continued) **1018279092**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160502
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20150226
Handler Name: CON EDISON	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20150226
Handler Name: CON EDISON	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110067685856

Click Here:

Environmental Interest/Information System:

CON EDISON (Continued) **1018279092**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1018279092
Registry ID:	110067685856
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110067685856
Name:	CON EDISON
Address:	STEWART AVE & MEADOW AVE
City,State,Zip:	BROOKLYN, NY 11237

A13 **MANHOLE 57877** **NY Spills** **S104509296**
East **MEADOW ST/STEWART AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.007 mi.
38 ft. **Site 11 of 14 in cluster A**

Relative: **Higher**

Actual: **14 ft.**

SPILLS:

Name:	MANHOLE 57877
Address:	MEADOW ST/STEWART AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9912167 / 2002-03-19
Facility ID:	9912167
Facility Type:	ER
DER Facility ID:	162970
Site ID:	195609
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	2401
Spill Date:	2000-01-21
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	2000-01-21
CID:	382
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2000-01-21
Spill Record Last Update:	2002-03-19
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	STEVEN CRIBBIN

MANHOLE 57877 (Continued) **S104509296**

DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL "
Remarks: "1/2 QT UNKNOWN OIL ON 100 GALS OF WATER CONTAINED IN MANHOLE. CLEAN UP PENDING. CON ED 129-702"

All Materials:
Site ID: 195609
Operable Unit ID: 1090869
Operable Unit: 01
Material ID: 294060
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

B14 **WASTE MANAGEMENT OF NEW YORK, LLC** **NY AST** **A100175767**
West **215 VARICK AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.015 mi.
77 ft. **Site 3 of 8 in cluster B**

Relative: **Lower**
Actual: **11 ft.**

AST:
Name: WASTE MANAGEMENT OF NEW YORK, LLC
Address: 215 VARICK AVENUE
City,State,Zip: BROOKLYN, NY 11237
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-605532
Program Type: PBS
UTM X: 590414.75804
UTM Y: 4507453.86839
Expiration Date: 03/29/2026
Site Type: Other

Affiliation Records:
Site Id: 27399
Affiliation Type: Facility Owner
Company Name: WASTE MANAGEMENT OF NEW YORK LLC
Contact Type: ENVIRONMENTAL MANAGER
Contact Name: JAY KAPLAN
Address1: 123 VARICK AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11237
Country Code: 001
Phone: (718) 533-5310
EMail: Not reported
Fax Number: Not reported
Modified By: BKFALVEY
Date Last Modified: 2011-04-28

Site Id: 27399

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **A100175767**

Affiliation Type:	Facility Operator
Company Name:	WASTE MANAGEMENT OF NEW YORK, LLC
Contact Type:	Not reported
Contact Name:	PETER DELUCA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 533-5266
EMail:	Not reported
Fax Number:	Not reported
Modified By:	BKFALVEY
Date Last Modified:	2011-04-28

Site Id:	27399
Affiliation Type:	Emergency Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK LLC
Contact Type:	Not reported
Contact Name:	JAY KAPLAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 773-1814
EMail:	Not reported
Fax Number:	Not reported
Modified By:	BKFALVEY
Date Last Modified:	2011-04-28

Site Id:	27399
Affiliation Type:	Mail Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK, LLC
Contact Type:	ENVIRONMENTAL MANAGER
Contact Name:	JAY KAPLAN
Address1:	123 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 533-5310
EMail:	JKAPLAN2@WM.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2009-11-12

Tank Info:

Tank Number:	001
Tank Id:	60012
Material Code:	0008
Common Name of Substance:	Diesel

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **A100175767**

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
E01 - Piping Secondary Containment - Diking (AG only)

Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/01/1990
Register:	True
Modified By:	MSBAPTIS
Last Modified:	04/14/2017
Material Name:	diesel

Tank Number:	002
Tank Id:	60013
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

K99 - Spill Prevention - Other
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
J00 - Dispenser - None
D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1990
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **A100175767**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NTFREEMA
Last Modified:	04/14/2017
Material Name:	waste oil/used oil
Tank Number:	003
Tank Id:	60014
Material Code:	0013
Common Name of Substance:	Lube Oil

Equipment Records:

J02 - Dispenser - Suction Dispenser
K99 - Spill Prevention - Other
L09 - Piping Leak Detection - Exempt Suction Piping
E01 - Piping Secondary Containment - Diking (AG only)
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F01 - Pipe External Protection - Painted/Asphalt Coating
D11 - Pipe Type - Flexible Piping

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1990
Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NTFREEMA
Last Modified:	04/14/2017
Material Name:	lube oil
Tank Number:	004
Tank Id:	231439
Material Code:	0010
Common Name of Substance:	Hydraulic Oil

Equipment Records:

C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
E01 - Piping Secondary Containment - Diking (AG only)
D11 - Pipe Type - Flexible Piping
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **A100175767**

J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/15/1997
Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NTFREEMA
Last Modified:	04/14/2017
Material Name:	hydraulic oil

B15 **WMNY VARICK 1 TRANSFER STATION** **NY SWF/LF** **S102632777**
West **215 VARICK AVENUE** **NY Financial Assurance** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.015 mi.
77 ft. **Site 4 of 8 in cluster B**

Relative: **Lower**
Actual: **11 ft.**

SWF/LF:

Name:	WMNY VARICK 1 TRANSFER STATION
Address:	215 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	ACTIVE
Region Code:	2
Phone Number:	7185335266
Owner Name:	Waste Management of NY; LLC
Owner Type:	Private
Owner Address:	215 Varick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	Not reported
Owner Phone:	7185335310
Contact Name:	Jay Kaplan
Contact Address:	215 Varick Avenue
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY 11237
Contact Email:	jkaplan2@wm.com
Contact Phone:	7185335310
Activity Desc:	Transfer station - permit
Activity Number:	[24T66]
Active:	Yes
East Coordinate:	590448
North Coordinate:	4507405
Accuracy Code:	4.2 - Utilization of GIS and existing spatial data
Regulatory Status:	SAPA
Waste Type:	Yard Waste;MSW (Residential/Institutional & Commercial)
Authorization #:	2-6104-00010/00002
Authorization Date:	10/30/2018
Expiration Date:	10/21/2019

WMNY VARICK 1 TRANSFER STATION (Continued) **S102632777**

Operator Name: Waste Management of NY; LLC
Operator Type: Private
Laste Date: Not reported

NY Financial Assurance 1:
Name: WMNY VARICK 1 TRANSFER STATION
Address: 215 VARICK AVENUE
City,State,Zip: BROOKLYN, NY
Owner Name: Waste Management of NY; LLC
Region: 2
Estimate Type: Closure
Estimate Amount: 705,500
Estimate Date: 03/01/2001
Mechanism: Surety bond - Performance
Mechanism Amount: 962,450
Issue Date: 02/09/2004
Activity Number: 24T66
Activity Description: z Retired - Transfer station - permit

A16 **CONSOLIDATED EDISON** **NY MANIFEST** **1009241817**
East **221 241 MEADOW ST V434** **N/A**
< 1/8 **BROOKLYN, NY 11201**
0.019 mi.
101 ft. **Site 12 of 14 in cluster A**

Relative:
Higher

Actual:
14 ft.

NY MANIFEST:
Name: CONSOLIDATED EDISON
Address: 221 241 MEADOW ST V434
City,State,Zip: BROOKLYN, NY 11201
Country: USA
EPA ID: NYP004103461
Facility Status: Not reported
Location Address 1: 221 241 MEADOW ST V434
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11201
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004103461
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: FRANKLIN MURRAY
Mailing Address 1: 4 IRVING PLACE RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124602808

A17 **DIELECTRIC FLUID GOING INTO SEWER** **NY Spills** **S108130677**
East **243 MEADOW STREET** **N/A**
< 1/8 **BROOKLYN, NY**
0.022 mi.
114 ft. **Site 13 of 14 in cluster A**

Relative:
Higher

Actual:
14 ft.

SPILLS:

Name:	DIELECTRIC FLUID GOING INTO SEWER
Address:	243 MEADOW STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0606519 / 2006-09-07
Facility ID:	0606519
Facility Type:	ER
DER Facility ID:	319744
Site ID:	369880
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	2006-09-07
Investigator:	GDBREEN
Referred To:	Not reported
Reported to Dept:	2006-09-07
CID:	444
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-09-07
Spill Record Last Update:	2006-09-08
Spiller Name:	Not reported
Spiller Company:	CON ED CUSTOMER
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	ERTS
DEC Memo:	"202322. see eDocs Referred to spills for follow-up. Breen"
Remarks:	"SOME REACHED UNKNOWN HOW MUCH STILL INVESTIGATING: OWNED BY ANOTHER COMPANY. 202322"

All Materials:

Site ID:	369880
Operable Unit ID:	1127707
Operable Unit:	01
Material ID:	2117308
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

A18 **CON EDISON - MANHOLE 57876** **RCRA-LQG** **1016450709**
East **243 MEADOW STREET** **FINDS** **NYP004297362**
< 1/8 **BROOKLYN, NY 11237** **ECHO**
0.022 mi. **NY MANIFEST**
114 ft. **Site 14 of 14 in cluster A**

Relative: **Higher**
Actual: **14 ft.**

RCRA-LQG:

Date Form Received by Agency:	20140407
Handler Name:	CON EDISON - MANHOLE 57876
Handler Address:	243 MEADOW STREET
Handler City,State,Zip:	BROOKLYN, NY 11237
EPA ID:	NYP004297362
Contact Name:	DENNIS HUACON
Contact Address:	IRVING PLACE, 15TH FL NE
Contact City,State,Zip:	NEW YORK, NY 10003
Contact Telephone:	212-460-2757
Contact Fax:	401-765-1500
Contact Email:	HUACOND@CONED.COM
Contact Title:	ASSOCIATE SCIENTIST
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2013
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	IRVING PLACE, 15TH FL NE
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner Type:	Private
Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

CON EDISON - MANHOLE 57876 (Continued) **1016450709**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2013

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private
Date Became Current:	20130329
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private

CON EDISON - MANHOLE 57876 (Continued) **1016450709**

Date Became Current: 20130329
Date Ended Current: Not reported
Owner/Operator Address: 4 IRVING PLACE
Owner/Operator City,State,Zip: NEW YORK, NY 10003
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20140407
Handler Name: CON EDISON - MANHOLE 57876
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20130329
Handler Name: CON EDISON MANHOLE: 57876
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20130429
Handler Name: CON EDISON MANHOLE: 57876
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 221122
NAICS Description: ELECTRIC POWER DISTRIBUTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

CON EDISON - MANHOLE 57876 (Continued) **1016450709**

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110055936509

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1016450709
Registry ID:	110055936509
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110055936509
Name:	CON EDISON - MANHOLE 57876
Address:	243 MEADOW STREET
City,State,Zip:	BROOKLYN, NY 11237

NY MANIFEST:

Name:	CON EDISON MANHOLE: 57876
Address:	243 MEADOW ST
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP004297362
Facility Status:	Not reported
Location Address 1:	243 MEADOW STREET
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004297362
Mailing Name:	CON EDISON MANHOLE: 57876
Mailing Contact:	CON ED
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

C19
WNW
< 1/8
0.024 mi.
128 ft.

VIJAX CORPORATION
210 VARICK AVENUE
BROOKLYN, NY 11237

Site 1 of 20 in cluster C

NY UST **U001832798**
N/A

Relative:
Lower

Actual:
11 ft.

UST:

Name:	VIJAX CORPORATION
Address:	210 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Id/Status:	2-080454 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590422.37837
UTM Y:	4507509.01297
Site Type:	Other

Affiliation Records:

Site Id:	1615
Affiliation Type:	Facility Owner
Company Name:	VIJAX CORPORATION
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	210 VARICH AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 497-4491
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	1615
Affiliation Type:	Mail Contact
Company Name:	VIJAX CORPORATION
Contact Type:	Not reported
Contact Name:	RONALD CATOGGIO
Address1:	210 VARICH AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 497-4491
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	1615
Affiliation Type:	Facility Operator
Company Name:	VIJAX CORPORATION
Contact Type:	Not reported
Contact Name:	ANTHONY LOSQUADRO
Address1:	Not reported

VIJAX CORPORATION (Continued) **U001832798**

Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-4491
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	1615
Affiliation Type:	Emergency Contact
Company Name:	VIJAX CORPORATION
Contact Type:	Not reported
Contact Name:	ANTHONY LOSQUADRO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-4491
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank ID:	5420
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	2750
Install Date:	Not reported
Date Tank Closed:	09/01/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	ZZ
Date Test:	11/01/1997
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

D10 - Pipe Type - Copper
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination

VIJAX CORPORATION (Continued) **U001832798**

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I05 - Overfill - Vent Whistle

Tank Number:	002
Tank ID:	5421
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	4000
Install Date:	10/01/1981
Date Tank Closed:	10/01/1981
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	ZZ
Date Test:	11/01/1997
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)

C20 **TO ROADWAY** **NY Spills** **S117851233**
WNW **IFO 210 VARICK AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.024 mi.
128 ft. **Site 2 of 20 in cluster C**

Relative: **Lower**
Actual: **11 ft.**

SPILLS:

Name:	TO ROADWAY
Address:	IFO 210 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1411768 / 2015-03-17
Facility ID:	1411768
Facility Type:	ER
DER Facility ID:	460383
Site ID:	505566
DEC Region:	2
Spill Cause:	Traffic Accident
Spill Class:	Not reported
SWIS:	2401
Spill Date:	2015-03-17
Investigator:	HRPATEL
Referred To:	Not reported

TO ROADWAY (Continued) **S117851233**

Reported to Dept:	2015-03-17
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2015-03-17
Spill Record Last Update:	2015-03-17
Spiller Name:	Not reported
Spiller Company:	ALL AMERICAN TRANSIT MIX
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	FIREFIGHTER SALVESEN
DEC Memo:	"03/17/15-Hiralkumar Patel. 1:03 PM:- spoke with FDNY Hazmat 1. a concrete mix truck overturned onto street and spilled approx. 15 gal diesel onto street only. no soil or sewers were affected. FDNY has pumped spilled product from street and remaining oil from the saddle tank, into 85 gal drum. oil drum will be placed onto tow truck."
Remarks:	"truck overturned, no sewers etc. fd on scene for c/u"

All Materials:

Site ID:	505566
Operable Unit ID:	1254873
Operable Unit:	01
Material ID:	2257509
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

C21 **COMMERCIAL BUILDING** **NY Spills** **S112226424**
WNW **210-222 VARICK AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.024 mi.
128 ft. **Site 3 of 20 in cluster C**

Relative: **Lower**
Actual: **11 ft.**

SPILLS:

Name:	COMMERCIAL BUILDING
Address:	210-222 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237-1027
Spill Number/Closed Date:	1205626 / 2015-09-22
Facility ID:	1205626
Facility Type:	ER
DER Facility ID:	422873
Site ID:	468588
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4

COMMERCIAL BUILDING (Continued) **S112226424**

SWIS:	2401
Spill Date:	2011-07-20
Investigator:	RVKETANI
Referred To:	021114 CASE REFERAL PACKAGE TO LEGAL
Reported to Dept:	2011-07-20
CID:	Not reported
Water Affected:	GROUNDWATER
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2012-09-05
Spill Record Last Update:	2015-09-22
Spiller Name:	ANTHONY LOSQUADRO
Spiller Company:	COMMERCIAL BUILDING
Spiller Address:	210-222 VARICK AVENUE
Spiller Company:	999
Contact Name:	ANTHONY LOSQUADRO
DEC Memo:	"9/5/12 - Raphael Ketani. The subject site is a commercial building owned by Anthony Losquadro, 210-222 Varick Avenue, Brooklyn, 11237-1027. His phone is (917) 681-1206. According to an old deed in ACRIS, Mr. Losquadro lives at 94 Payne Whitney Lane in Manhasset, NY. For 210 Varick Avenue, there is PBS case #2-080454. The facility listed is VIJAX Corp. at 210 Varick Avenue. A 275 gal. UST with #2 oil was closed in place on 9/1/02. A 4000 gal. UST with gasoline was closed in place on 10/1/81. The 222 Varick Avenue site used to house oil delivery trucks. Now, the 222 address houses a tiling company called Buy Tile. A metal recycling company operates out of 210 Varick Avenue. The spill was originally reported by the consultants (Sander Sternig, Director) at Volumetric Techniques, Ltd. (631) 472-4848 in their 7/20/11 soil and groundwater delineation report for their client next door, Metro Garage gas station at 1188 Metropolitan Avenue, Brooklyn. The soil and groundwater results for SB-5 and MW-1 in the 7/20/11 Volumetric report indicate exceedences of the CP-51 standards. The suite of exceedences are reflective of gasoline contamination, not fuel oil. The consultants for Volumetric have indicated that the Metro Garage UST near SB-5 and MW-1 held only diesel. However, there is a UST nearby just inside the former VIJAX building at 210-222 Varick Avenue. The UST was allegedly used to fuel oil delivery trucks with gasoline. A later investigation of the abandoned Metro Garage diesel UST was done and a report was generated by Volumetric dated 1/6/12. Two soil borings were done next to the diesel UST. The results indicated very little residual oil contamination in the soil. 9/13/12 - Raphael Ketani. A draft CSL was submitted to Hassan Hussein, supervisor of Unit C in Region 2 DER. Mr. Hussein approved the CSL and it was sent out today. 9/18/12 - Raphael Ketani. Anthony Losquadro (917) 681-1206 called yesterday regarding the CSL. He wanted to know what it was about. I explained that soil and groundwater contamination had been found at MW-1 and MW-2 during an investigation for Metro Garage. He said that his gasoline UST and fuel oil UST had been closed in place many years ago after they both had passing EZ-3 tank tests. I told him that the contamination is in the subsurface and his property is the closest

COMMERCIAL BUILDING (Continued) **S112226424**

facility to the wells. He said that he had a subsurface investigation performed by Fenley & Nicol and everything was fine in the subsurface. I asked him to send me the Fenley & Nicol report and the passing tank tests. He said he will. He asked for the reports showing that contamination was found. I sent him the Volumetric Techniques 7/20/11 and 1/6/12 reports by e-mail (tony@vijax.com). Later, Mr. Losquadro sent me a tank system integrity report dated 8/22/02 and the Fenley & Nicol Limited Subsurface Investigation and Tank Closure Report dated 12/19/02. The tank system report was for only the 4,000 gal. gasoline UST. The tank system had passed the integrity test. The Fenley & Nicol report dealt with an investigation of only the gasoline UST. The UST was located in the southwest corner of the property. Four (4) soil borings were performed around the UST and were turned into temporary monitoring wells. These wells were TW-1 to TW-4. Two (2) additional temporary wells were installed in the vicinity of the tank. These wells are TW-5a and TW-6a. The borings went down to 8 feet, except TW-6a went to 12 feet. The soil samples were taken from 0 to 4 feet and from 4 to 8 feet. TW-1 had virtually no PID detects. TW-2 had 10.8 ppm at 0 to 4 feet. TW-3 had 5.8 ppm at 0 to 4 feet. TW-4 had 2 ppm at 0 to 4 feet and 79.2 ppm at 4 to 8 feet with olfactory detection of odors. TW-5a had 63 ppm at 0 to 4 feet and 75 ppm at 4 to 8 feet. TW-6a had 5.8 ppm at 0 to 4 feet, 0.4 ppm or less deeper. Groundwater was determined to vary from 6.7 feet to 8.6 feet below grade and flowed north to Metropolitan Avenue. Groundwater samples were taken from TW-1 (upgradient), TW-2 (downgradient) and TW-6a (northernmost location). All of the results were non-detect for VOCs and SVOCs. It was not indicated in the report that the soil samples had been sent to a lab for analysis. I found the report and the investigation to be deficient. I drafted a letter for the review of Mr. Hussein. In the letter, I requested that Mr. Losquadro have a new investigation performed to delineate the soil and groundwater contamination throughout the 210-222 Varick Avenue site. 9/20/12 - Raphael Ketani. Mr. Hussein approved the letter and it was sent out today. A due date of October 19, 2012 was set for the submission of the work plan. 11/13/12 - Raphael Ketani. The deadline for submission of the work plan had passed. I drafted a strongly worded letter for the review of Mr. Hussein. In the letter, I ordered Mr. Losquadro to submit the work plan by November 30, 2012. I stated that he was in violation of Section 173 and Section 176 of Article 12 of the Navigation Law. If he doesn't send the work plan, then the case will be referred to the Office of General Counsel and he may face fines, penalties and prosecution. The letter was approved by Mr. Hussein and was sent out with a green return card. 11/19/12 - Raphael Ketani. The green card was returned, but there was only a mark in the signature box for the receiving party. 12/4/12 - Raphael Ketani. The work plan was not received by the November 30, 2012 due date. A draft Stipulation Agreement package was put together and submitted to Mr. Hussein for his approval. Mr. Hussein approved the Stipulation Agreement and it was sent to Anthony Losquadro at 222 Varick and to Joseph Losquadro at 94 Whitney Lane, Manhasset, NY, 11030. According to the ACRIS property database, the Losquadro Family, LLC owns 222 Varick. So they were put on the Stip itself. A deadline of January 4, 2013 was set for the receipt of the signed Stip. The Stip Package went out today. 12/14/12 - Raphael Ketani. The green return card for the Stipulation Agreement package was received today with a mark in the signature box. 12/21/12 - Raphael Ketani. Robert Dooley from The Law Office of Frederick Eisenbud (The

COMMERCIAL BUILDING (Continued) **S112226424**

Environmental Law Firm, 6165 Jericho Turnpike, Commack, NY, 11725-2803, (631) 493-9800/rd@li-envirolaw.com) called to request an extension of the deadline for submitting the Stipulation Agreement. I granted him an extension to January 25, 2013. Later, Mr. Eisenbud sent me an e-mail requesting additional documentation regarding the spill investigation at the Metro Garage site at 1188 Metropolitan Avenue, Brooklyn (#0302832). He also asked a number of questions about the Metro Garage investigation and included questions from Mike Zobel of Fenley & Nicol. Lastly, Mr. Eisenbud asked whether Losquadro Family LLC could be reimbursed by making a claim to the Spill Fund for the expense of the investigation work if their investigation indicates that 210-222 Varick Avenue is not the source of the contamination at MW-1. 12/24/12 - Raphael Ketani. I responded to Mr. Eisenbud's e-mail by sending him a pdf of the VTEQE 6/7/11 investigation report and by stating the reasons why the spill case was being kept open for 210-222 Varick Avenue. These reasons were: 1) soil and groundwater samples were analyzed for MW-1 for VOCs. These VOCs were typical of gasoline. 2) there is a gasoline UST near MW-1 and just inside the building footprint. So it is not unreasonable to assume that the gasoline contamination came from this UST system. 3) there are no gasoline USTs under the Metro garage site which are near MW-1, only a fuel oil UST. 4) the gasoline contamination is less at the downgradient location of boring SB-4 than it is at SB-5. 5) aside from these points, a report was obtained for the site at 210-222 Varick Avenue which indicated that fuel oil had leaked from the fuel oil UST system and hinted at elevated contamination. I finished the e-mail by stating that I would have to get back to him regarding reimbursement for the expense of the investigative work that will be performed - if the results indicate that 210-222 Varick is not the source. 12/27/12 - Raphael Ketani. I sent an e-mail to Mr. Eisenbud wherein I referred him to John Urda, Assistant Regional Attorney. Mr. Urda can answer his question about reimbursement for his client. 1/2/2013 - Raphael Ketani. I received information regarding reimbursement for the costs of doing an investigation for contamination that is not the responsibility of the property owner. I forwarded the information to Mr. Eisenbud. 1/24/13 - Raphael Ketani. A conference call took place between Mr. Zobel, Mr. Eisenbud and myself regarding the site and the previous Fenley & Nicol investigation. I told them that samples from SB-5 and MW-1 had indicated gasoline contamination, but Metro Garage had only a diesel fuel UST in this area. I added that groundwater flow was due north and the contamination was less at a further downgradient boring SB-4. Mr. Eisenbud stated that SB-5 and MW-1 were sidegradient, not downgradient and didn't reflect contamination from his client's property. I told them that there were high PID hits at the 4 to 8 foot interval at TW-4 and at both the 0 to 4 foot and 4 to 8 foot internvals at TW-5A. So there were indications of soil contamination that had never been addressed. I added now that the DEC was made aware of this, we were obligated to request that an investigation take place. Mr. Eisenbud pointed out that there was no groundwater contamination from the gasoline UST. So, the contamination at MW-1 was from somewhere else. I told both of them that an investigation needed to take place in order to resolve the matter. Mr. Eisenbud requested an extension of the deadline for submission of the Stipulation Agreement. I gave him until February 8. I added that a work plan will need to be submitted that will describe an investigation of all of the tanks below the property. With that, the

COMMERCIAL BUILDING (Continued) **S112226424**

conversation ended. 2/13/13 - Raphael Ketani. I tried to contact Mr. Dooley (631) 493-9800/rd@li-envirolaw.com regarding the submission of the overdue signed STIP, but could only leave a message. Mr. Dooley called me back. He said that he is involved in the case, but Mr. Eisenbud has the case file and so he is the person to talk to. However, he isn't here now. Mr. Dooley said that he had no idea why the STIP hadn't been signed and forwarded to the DEC, but he will let Mr. Eisenbud know that the DEC is looking for the document. He asked for a two day extension to submit the STIP. I told him that I will grant the two day extension, but, if the STIP is not received by that time, then I will be forced to pass the case up to our legal division. Mr. Dooley said that he understood. 2/15/13 - Raphael Ketani. Mr. Dooley called regarding the STIP. He said that due to the deadline being today for submission of the STIP, there is not enough time to go over it with Mr. Losquadro and get him to sign it. Also, he had heard about other spill sites having work plans instead of STIPs for oil spill cases. I told Mr. Dooley that the STIP was sent because the DEC was not receiving cooperation from Mr. Losquadro - in other words, no investigative work was taking place. Mr. Dooley said that he understood. Mr. Dooley asked whether the DEC was willing to accept a work plan at this time. I told him Yes, but the plan must cover an investigation of the entire site as we don't know what is taking place below the property regarding the oil contamination. Mr. Dooley said that he will send the DEC a work plan very soon. 3/18/13 - Raphael Ketani. I reviewed the Fenley & Nicol 3/7/13 Remedial Investigation Work Plan. There is a 2750 gal. fuel oil AST and a 4000 gal. gasoline UST below the site. Both passed the tightness tests on 11/4/97. The gas UST was retested on 8/22/02 and passed the second tightness test. Both tanks were abandoned in place with concrete slurry on 9/3/02. A GPR survey will be performed across the site in order to locate any utilities. The borings will be hand cleared down to 5 feet. Sampling will be every 3 feet. The soil and groundwater samples will be tested via method 8260 for samples that are collected from around the gasoline UST. For samples that are collected from around the fuel oil AST, the testing will be via methods 8260 and 8270. I found the work plan to be unacceptable. First, the number of borings is insufficient for determining whether there is contamination around the tanks, given their large sizes. Second, standard split spoon sampling is with a 2 foot split spoon. Third, it is not mentioned that soil sampling will take place in the vicinity of former borings TW-4 and TW-5a, where the contamination was originally found around the gasoline UST. Fourth, the well that they plan to install next to the fuel oil AST is not downgradient. Fifth, no borings were planned just inside of the garage door at 222 Varick Avenue that is next to Metro Garage. I drafted a letter for the review of Mr. Hussein stating the above deficiencies and requesting that a new work plan be submitted within 30 days of the response letter (by April 22). 3/19/13 - Raphael Ketani. Mr. Hussein approved the letter and it was sent out. 3/20/13 - Raphael Ketani. In response to the 3/19/13 letter, Mr. Dooley called me. We discussed the work that was being requested by the DEC. He said that it was much more than he expected and that he thought the object of the investigation was to see whether there was oil contamination below and around the tanks at 210-220 Varick Avenue, not to also investigate 222 Varick Avenue for an orphan tank. I reminded him that both the soil and the groundwater at the location MW-1, outside of the garage at 222 Varick, have gasoline contamination. I also stated again that Metro

COMMERCIAL BUILDING (Continued) **S112226424**

Garage does not have a gasoline tank in this area. So, given the analytes concentrations, there must be a gasoline UST nearby. The most likely location would be just inside 222 Varick. Mr. Dooley stated that it was not possible to do borings with a geoprobe inside the building as the ceiling was too low. I told him that there are all kinds of small equipment that can do the boring and, worse comes to worse, the consultants can use a small power drill to core the concrete floor and then do hand soil coring. I added that this was not easy, but I had seen it done on a number of projects where a geoprobe couldn't be used. Mr. Dooley stated that this was a possibility, but that he wanted to talk to Fenley & Nicole first before doing any of this work. I told him that would be fine. 5/10/13 - Raphael Ketani. As Mr. Dooley (631) 493-9800/rd@li-envirolaw.com has not responded since 3/20/13 and as the Department has not received the signed STIP (which was due 2/15/13) nor the revised Remedial Investigation Work Plan (which was due 4/22/13), I sent him an e-mail stating that either he sends the signed STIP or the revised work plan by May 31, or else a legal case will be initiated. 5/13/13 - Raphael Ketani. Mr. Dooley sent me an e-mail stating that the DEC will receive the work plan by the end of the week. 6/14/13 - Raphael Ketani. As neither the work plan nor the Stipulation Agreement have been forthcoming, I referred the spill case to our legal division. 2/7/14 - Raphael Ketani. There has been no contact from Mr. Losquadro or his consultant. There have been no changes regarding site status or property ownership. Ownership of the entire site is split into two groups: according to a 7/28/92 deed in ACRIS, 222 Varick Avenue is owned in common by Paul and Anthony Losquadro (both at 94 Payne Whitney Lane, Manhasset, New York) and by Monica Losquadro (145 Hicks Street, Brooklyn); 210-220 Varick is owned by the Losquadro Family, LLC. 2/11/14 - Raphael Ketani. A revised case referal was submitted to the Region 2 legal division. 10/30/14 - Raphael Ketani. I spoke to Sandy Sternig (631) 472-4848/cell (631) 514-1094 today (the consultant who had installed MW-1 and MW-2 outside of the site) about 222 Varick Avenue. He told me new information about the alleged gasoline UST at 222 Varick Avenue. Mr. Sternig said that he thought the UST was a little inside and to the right of the garage entrance nearest Metro Garage. I then asked Mr. Sternig how Dennis Firpo (the owner of Metro Garage to the north) knew about the pump island and the tank. He said that Mr. Firpo used to own the property 222 Varick Avenue when the tank and pump were there and then had sold the property to Mr. Losquadro years ago. I checked ACRIS and there is a deed dated 7/28/92 which shows the change in ownership from 222 Varick Avenue Corporation to Paul Losquadro (94 Payne Whitney Lane), Anthony Losquadro (94 Payne Whitney Lane) and Monica Losquadro (145 Hicks Street, Brooklyn). 9/16/15 - Raphael Ketani. I tried to contact Mr. Frederick Eisenbud [(The Environmental Law Firm, 6165 Jericho Turnpike, Commack, NY, 11725-2803, (631) 493-9800] by phone regarding progress at the site. I contacted Mr. Eisenbud as Mr. Dooley had left the law firm some time ago. In my message, I asked whether any work was taking place at the site. 9/22/15 - Raphael Ketani. Mr. Eisenbud still hasn't returned my phone call. The spill case data and information were discussed amongst staff at the Region 2 office of the Department. It was concluded that there is no evidence of a threat to the public or the environment from the contamination that was found at MW-1, SB-5 and around the fuel oil tank (according to the Fenley and Nicol report). It was decided that the spill case should be closed. Therefore, the spill case was administratively

COMMERCIAL BUILDING (Continued) **S112226424**

closed effective 9/22/15."
Remarks: "Spill discovered during a site investigation of the neighboring gas station."

All Materials:
Site ID: 468588
Operable Unit ID: 1218505
Operable Unit: 01
Material ID: 2216883
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 50.00
Units: G
Recovered: .00
Oxygenate: Not reported

C22 **CON EDISON** **NY MANIFEST** **S117736561**
WNW **210 VARICK AVE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.024 mi.
128 ft. **Site 4 of 20 in cluster C**

Relative: **Lower**
Actual: **11 ft.**

NY MANIFEST:
Name: CON EDISON
Address: 210 VARICK AVE
City,State,Zip: BROOKLYN, NY 11237
Country: USA
EPA ID: NYP004532883
Facility Status: Not reported
Location Address 1: 210 VARICK AVENUE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11237
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004532883
Mailing Name: CON EDISON
Mailing Contact: TOM TEELING
Mailing Address 1: 4 IRVING PLACE 15TH FLOOR
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported

CON EDISON (Continued) **S117736561**

Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	05/15/2014
Trans1 Recv Date:	05/15/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/16/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004532883
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002406841GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	300
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

C23 **CON EDISON SERVICE BOX: 3** **RCRA NonGen / NLR** **1017775453**
WNW **210 VARICK AVE** **NYP004532883**
< 1/8 **BROOKLYN, NY 11237**
0.024 mi.
128 ft. **Site 5 of 20 in cluster C**

Relative: RCRA NonGen / NLR:
Lower

Date Form Received by Agency:		20140615
Handler Name:	CON EDISON SERVICE BOX:	3
Handler Address:		210 VARICK AVE
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYP004532883

Actual:
11 ft.

CON EDISON SERVICE BOX: 3 (Continued) **1017775453**

Contact Name:	THOMAS TEELING
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	212-460-3770
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	SENIOR SCIENTIST
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	IRVING PL, 15TH FL NE
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No

CON EDISON SERVICE BOX: 3 (Continued) **1017775453**

Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150211
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20140515
Handler Name: CON EDISON	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20140515
Handler Name: CON EDISON	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20140615
Handler Name: CON EDISON SERVICE BOX: 3	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

CON EDISON SERVICE BOX: 3 (Continued) **1017775453**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C24 **NEW TOWN CREEK** **NY Spills** **S108956055**
WNW **225 VARICK AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.028 mi.
150 ft. **Site 6 of 20 in cluster C**

Relative:
Lower

Actual:
10 ft.

SPILLS:

Name:	NEW TOWN CREEK
Address:	225 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0708123 / 2007-10-25
Facility ID:	0708123
Facility Type:	ER
DER Facility ID:	338526
Site ID:	388965
DEC Region:	2
Spill Cause:	Other
Spill Class:	C4
SWIS:	2401
Spill Date:	2007-10-25
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2007-10-25
CID:	408
Water Affected:	NEW TOWN CREEK
Spill Source:	Commercial Vehicle
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2007-10-25
Spill Record Last Update:	2007-10-25
Spiller Name:	Not reported
Spiller Company:	NOT YET AVAILABLE
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	GREGG GALIETTI
DEC Memo:	"Duplicate spill see 0708122"

NEW TOWN CREEK (Continued) **S108956055**

Remarks: "while loading THE GARBAGE ONTO THE TRUCK THE GARBAGE TRUCK ROLLED INTO THE CREEK; SLICK ON TOP OF WATER;"

All Materials:

Site ID:	388965
Operable Unit ID:	1146118
Operable Unit:	01
Material ID:	2136480
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	388965
Operable Unit ID:	1146118
Operable Unit:	01
Material ID:	2136481
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

D25 **SB 55893** **NY Spills** **S106470894**
ESE **200 STEWART AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.034 mi.
181 ft. **Site 1 of 7 in cluster D**

Relative: **Higher**
Actual: **14 ft.**

SPILLS:

Name:	SB 55893
Address:	200 STEWART AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0403838 / 2004-10-04
Facility ID:	0403838
Facility Type:	ER
DER Facility ID:	103273
Site ID:	118871
DEC Region:	2
Spill Cause:	Vandalism
Spill Class:	C4
SWIS:	2401
Spill Date:	2004-07-10
Investigator:	SKARAKHA
Referred To:	Not reported
Reported to Dept:	2004-07-10
CID:	27
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other

SB 55893 (Continued) **S106470894**

Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2004-07-10
Spill Record Last Update:	2004-10-04
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	Not reported
DEC Memo:	"e2mis no 154293 ROSALIE REPORTS WHILE ON LOCATION HE SAW A PERSON FROM KORYO CORP, ORIENTAL MARINE PRODUCTS INC (IN FRONT 200 STEWART) AVE, DUMP A GALLON OF LIQUID INTO OUR SB-55893. HE THINKS IT SMELLS LIKE TERPENTINE. THE POLICE ARRIVED AND SO DID THE FDNY. ROSALIE WILL TAKE 3 SAMPLES. THIS IS A THIRD PARTY SPILL. Lab Sequence Number: 04-05405-001: Analysis indicates the presence of a substance similar to a light fuel oil. UPDATE: 10-JUL-2004 2226HRS 7/10/04 = 19:45 Hrs = Env. Ops. Supv. C.Fernandez reports that upon arrival at location a Mr. Steve Hong, Manager of Koreyo International Corp., approached him and admitted that his employees had poured paint thinner and oil based primer into our structure. After Mr. Fernandez spoke with Mr. DeMeo of the DEC on his cell phone it was agreed that Mr. Fernandez would call Clean Harbors to clean the structure as soon as possible. Mr. Fernandez was also informed that Officer Valente from the NYS DEC would be arriving soon. Officer Valente issued a summons to the consumer and informed him that Con Edison would have Clean Harbors clean the structure and bill him for it. FOD personnel, Mr. Rosalie and Mr. Ciampa, gave their statement to Officer Valente (of which Mr. Fernandez has a copy) and also gave Mr. Fernandez a written statement. At 17:50 Hrs Clean Harbors personnel arrived, proceeded to clean the structure and completed the job at 19:30 Hrs. From beginning to end Mr. Fernandez kept in touch with Mr.DeMeo, Mr. Silano and shift manager Mr. Sorrentino. Clean Harbors manifest, job sheet and Con Edison employees statements will be located in the Environmental Operations office. UPDATE: 10-JUL-2004 2234HRS TAG 30402 WAS REMOVED JOB IS 100% COMPLETE"
Remarks:	"CALLER REPORTS 1 GALLON OF UNKNOWN SUBSTANCE. SMELLS LIKE TURPENTINE THAT WAS POURED INTO THE SERVICE BOX. UNKNOWN FOR SURE MATERIAL SPILLED. LAW ENFORCEMENT IS REQUESTED FROM DEC."

All Materials:

Site ID:	118871
Operable Unit ID:	886238
Operable Unit:	01
Material ID:	491394
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

B26 **VARICK ST & MEADOW ST** **NY Spills** **S102401958**
SW **VARICK ST & MEADOW ST** **N/A**
< 1/8 **BROOKLYN, NY**
0.038 mi.
201 ft. **Site 5 of 8 in cluster B**

Relative: **Lower**

Actual: **12 ft.**

SPILLS:

Name:	VARICK ST & MEADOW ST
Address:	VARICK ST & MEADOW ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9606739 / 1998-05-13
Facility ID:	9606739
Facility Type:	ER
DER Facility ID:	261647
Site ID:	324811
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	2401
Spill Date:	1996-08-26
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	1996-08-26
CID:	282
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-08-26
Spill Record Last Update:	2003-01-21
Spiller Name:	TIM SOILCH
Spiller Company:	CON EDISON
Spiller Address:	4 IRVING PLACE
Spiller Company:	001
Contact Name:	MR FREIER
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL On 8/26 Tim Solich of Con Ed CIG reported that spill size was less than 200 gallon, less than 10 gallon into sewer and oil contained less than 10 ppm pcb. 8/27/98 (Katz notes): Steve Zalloughi, Env. Manager - Bushing failure on cemter of 3 units, 14-yr. old large, pad-mounted transformer. 65 gallons transformer oil released - some into sewer, 5 gallons contained in basin - Clean Ventures. STAR (Transfer Station - Waste Mgmt. of NY, 221 Varick Ave., operations supervisor - Anthony Gusmano (718) 497-8011) used wood chips to contain the oil. Used SLIX to clean street and picked up wood chips. <10 ppm PCB by record."
Remarks:	"spill went on the sidewalk and some went into the sewer system. a crew is on the scene cleaning the spill up. "

All Materials:

Site ID:	324811
Operable Unit ID:	1037880
Operable Unit:	01
Material ID:	346008
Material Code:	0020A

VARICK ST & MEADOW ST (Continued) **S102401958**

Material Name:	transformer oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

B27 **CON EDISON** **NY MANIFEST** **S118090333**
SSW **OPP 180 VARICK AVE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.039 mi.
205 ft. **Site 6 of 8 in cluster B**

Relative:
Lower

Actual:
13 ft.

NY MANIFEST:

Name:	CON EDISON
Address:	OPP 180 VARICK AVE
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP004779555
Facility Status:	Not reported
Location Address 1:	OPP 180 VARICK AVE
Code:	BP
Location Address 2:	MH 43888
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004779555
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

C28 **TRANSFORMER #2279/EMIS#220280** **NY Spills** **S110140421**
WNW **231 VARICK ST** **N/A**
< 1/8 **BROOKLYN, NY**
0.041 mi.
219 ft. **Site 7 of 20 in cluster C**

Relative:
Lower

Actual:
10 ft.

SPILLS:

Name:	TRANSFORMER #2279/EMIS#220280
Address:	231 VARICK ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0912190 / 2010-04-01
Facility ID:	0912190

TRANSFORMER #2279/EMIS#220280 (Continued) **S110140421**

Facility Type:	ER
DER Facility ID:	373974
Site ID:	425064
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	2010-02-22
Investigator:	Con Ed Unassigned
Referred To:	Not reported
Reported to Dept:	2010-02-22
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2010-02-22
Spill Record Last Update:	2010-04-01
Spiller Name:	ERT
Spiller Company:	CON EDISON
Spiller Address:	231 VARICK ST
Spiller Company:	999
Contact Name:	ERT
DEC Memo:	"04/01/10 - See eDocs for Con Ed report detailing cleanup and closure. 2/22/10 - Raphael Ketani. I spoke to Paul Walsh from the Con Ed ERT desk (212) 580-8383. He said that the spill was from a manhole that was found to be smoking at 6:03AM this morning. Oil was discovered on the street and in the catch basin nearby at 10:50AM. A crew could not inspect the manhole until it had cooled down. Two pints of oil were on the street and 1 gal. of dielectric fluid had run into the catch basin. Mr. Walsh stated that even though the oil had entered the basin, it did not travel into the sewer pipe that connects the basin to the rest of the sewer. He said that he is still waiting on the PCB content report. He should have it soon. The crew is still on the scene. Mr. Walsh will call me with the PCB results. Mr. Walsh called me back. He said that his supervisor was now on the scene. He's been informed that there is a green substance on the street. They don't know where it is from or what it is. Additionally, the historic information on the transformer is from 4/7/03 and simply says that the PCB concentration is 0 ppm. So Con Ed will take samples from the manhole and the catch basin. Mr. Walsh will get back to me. 2/23/10 - Raphael Ketani. I spoke to Dennis Michael Ides at the ERT desk. He said that the analytical results came back. The grab sample from the street had 12 ppm of PCBs in the oil. The sample from the transformer itself had 13 ppm of PCBs. He said that he was at the site during the cleanup. The spill consisted of 1 gal. down the catch basin and two pints on the pavement. He said that everything was cleaned up. "
Remarks:	"SOME MAY HAVE BEEN LOST INTO SEWER. CONTAINED AND CLEAN UP PENDING"

All Materials:

Site ID:	425064
Operable Unit ID:	1180798

TRANSFORMER #2279/EMIS#220280 (Continued) **S110140421**

Operable Unit:	01
Material ID:	2174791
Material Code:	0541A
Material Name:	dielectric fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	1.00
Oxygenate:	Not reported

C29 **ROADWAY - PARKING SPOT** **NY Spills** **S123663172**
NW **222 VARRICK AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.044 mi.
233 ft. **Site 8 of 20 in cluster C**

Relative: **Lower**

Actual: **10 ft.**

SPILLS:

Name:	ROADWAY - PARKING SPOT
Address:	222 VARRICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1900848 / 2019-04-30
Facility ID:	1900848
Facility Type:	ER
DER Facility ID:	538022
Site ID:	586692
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	2019-04-24
Investigator:	PXLAKHAN
Referred To:	Not reported
Reported to Dept:	2019-04-24
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2019-04-24
Spill Record Last Update:	2019-04-30
Spiller Name:	METRO FUEL
Spiller Company:	METRO FUEL
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	ANTHONY LOSQUARO
DEC Memo:	"04/26/19 - Lakhani A citizen reported that a fuel delivery truck leaked oil to the roadway. The fuel company was Metro Fuel. Metro placed speedy dry onto the road to absorb the oil. Neither soil nor drains/sewers were affected. 04/30/19 - Lakhani Spill was cleaned. Spill is closed."
Remarks:	"Fuel delivery truck parked on the street that is actively leaking

ROADWAY - PARKING SPOT (Continued) **S123663172**

fuel onto the road. No driver around. Owner info obtained from the marking on the side of the truck."

All Materials:

Site ID:	586692
Operable Unit ID:	1334372
Operable Unit:	01
Material ID:	2343674
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

B30 **WASTE MANAGEMENT OF NY LLC** **RCRA NonGen / NLR** **1008374579**
West **221 VARICK AVE** **NY MANIFEST** **NYR000133298**
< 1/8 **BROOKLYN, NY 11237**
0.045 mi.
236 ft. **Site 7 of 8 in cluster B**

Relative: **Lower**

Actual: **8 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20070101
Handler Name:	WASTE MANAGEMENT OF NY LLC
Handler Address:	221 VARICK AVE
Handler City,State,Zip:	BROOKLYN, NY 11237-1026
EPA ID:	NYR000133298
Contact Name:	JAY KAPLAN
Contact Address:	VARICK AVE
Contact City,State,Zip:	BROOKLYN, NY 11237
Contact Telephone:	718-533-5310
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	VARICK AVE
Mailing City,State,Zip:	BROOKLYN, NY 11237
Owner Name:	WASTE MANAGEMENT OF NY LLC
Owner Type:	Private
Operator Name:	WASTE MANAGEMENT OF NY LLC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No

WASTE MANAGEMENT OF NY LLC (Continued) **1008374579**

Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE

WASTE MANAGEMENT OF NY LLC (Continued) **1008374579**

Waste Code: D005
Waste Description: BARIUM

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: WASTE MANAGEMENT OF NY LLC
Legal Status: Private
Date Became Current: 20050720
Date Ended Current: Not reported
Owner/Operator Address: 123 VARICK AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-533-5310
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: WASTE MANAGEMENT OF NY LLC
Legal Status: Private
Date Became Current: 20050720
Date Ended Current: Not reported
Owner/Operator Address: 221 VARICK AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-533-5310
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: WASTE MANAGEMENT OF NY LLC
Legal Status: Private
Date Became Current: 20050720
Date Ended Current: Not reported
Owner/Operator Address: 221 VARICK AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-533-5310
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: WASTE MANAGEMENT OF NY LLC
Legal Status: Private
Date Became Current: 20050720
Date Ended Current: Not reported
Owner/Operator Address: 123 VARICK AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-533-5310
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20060101
Handler Name: WASTE MANAGEMENT OF NY LLC
Federal Waste Generator Description: Not a generator, verified

WASTE MANAGEMENT OF NY LLC (Continued) **1008374579**

State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: WASTE MANAGEMENT OF NY LLC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20050722
Handler Name: WASTE MANAGEMENT OF NY LLC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56291
NAICS Description: REMEDIATION SERVICES

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Listing - General
Date Violation was Determined: 20090708
Actual Return to Compliance Date: 20090817
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20090826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported

WASTE MANAGEMENT OF NY LLC (Continued) **1008374579**

Appeal Resolution Date:	Not reported
Disposition Status Date:	20090826
Disposition Status:	AS
Disposition Status Description:	ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	NYACY
Enforcement Responsible Sub-Organization:	R2
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

WASTE MANAGEMENT OF NY LLC (Continued) **1008374579**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20090708
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYACY
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20090817
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20050922
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYHHN
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

NY MANIFEST:

Name:	WASTE MANAGEMENT OF NY LLC
Address:	221 VARICK AVE
City,State,Zip:	BROOKLYN, NY 11237-1026
Country:	USA
EPA ID:	NYR000133298
Facility Status:	Not reported
Location Address 1:	221 VARICK AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000133298
Mailing Name:	WASTE MANAGEMENT OF NY LLC
Mailing Contact:	WASTE MANAGEMENT OF NY LLC
Mailing Address 1:	221 VARICK AVE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237

WASTE MANAGEMENT OF NY LLC (Continued) **1008374579**

Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7185335310

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD986607380
Trans2 State ID:	Not reported
Generator Ship Date:	05/11/2007
Trans1 Recv Date:	05/11/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/17/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000133298
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	PAD067098822
TSDF ID 2:	Not reported
Manifest Tracking Number:	000186452JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	120
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1
Waste Code:	D001
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

B31 **WASTE MANAGEMENT OF NEW YORK/WM DIV. NY** **NY AST** **U003396745**
West **221 VARICK AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.045 mi.
236 ft. **Site 8 of 8 in cluster B**

Relative:
Lower

Actual:
8 ft.

AST:

Name:	WASTE MANAGEMENT OF NEW YORK/WM DIV. NY
Address:	221 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-602605
Program Type:	PBS
UTM X:	590411.85561
UTM Y:	4507489.30677
Expiration Date:	N/A
Site Type:	Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id:	24562
Affiliation Type:	Facility Owner
Company Name:	WASTE MANAGEMENT OF NEW YORK/WM DIV. NY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	123 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 386-7900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	24562
Affiliation Type:	Mail Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK/WM DIV. NY
Contact Type:	Not reported
Contact Name:	ANTHONY LOMANGINO
Address1:	123 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 386-7900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	24562
Affiliation Type:	Facility Operator
Company Name:	WASTE MANAGEMENT OF NEW YORK/WM DIV. NY
Contact Type:	Not reported
Contact Name:	ANTHONY LOMANGINO

WASTE MANAGEMENT OF NEW YORK/WM DIV. NY (Continued) **U003396745**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-8011
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	24562
Affiliation Type:	Emergency Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK/WM DIV. NY
Contact Type:	Not reported
Contact Name:	ANTHONY LOMANGINO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-8011
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank Id:	50699
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

	A00 - Tank Internal Protection - None
	B01 - Tank External Protection - Painted/Asphalt Coating
	G00 - Tank Secondary Containment - None
	J02 - Dispenser - Suction Dispenser
	H00 - Tank Leak Detection - None
	I00 - Overfill - None
	C01 - Pipe Location - Aboveground
	F99 - Pipe External Protection - Other
	D99 - Pipe Type - Other
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Tank Converted to Non-Regulated Use
Pipe Model:	Not reported
Install Date:	01/01/1990
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported

WASTE MANAGEMENT OF NEW YORK/WM DIV. NY (Continued) **U003396745**

Date Tank Closed: Not reported
Register: True
Modified By: NRLOMBAR
Last Modified: 04/14/2017
Material Name: diesel

Tank Number: 002
Tank Id: 50700
Material Code: 9999
Common Name of Substance: Other

Equipment Records:
B01 - Tank External Protection - Painted/Asphalt Coating
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
I00 - Overfill - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Location: Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Tank Converted to Non-Regulated Use
Pipe Model: Not reported
Install Date: 01/01/1990
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: NRLOMBAR
Last Modified: 04/14/2017
Material Name: other

Tank Number: 003
Tank Id: 50701
Material Code: 0013
Common Name of Substance: Lube Oil

Equipment Records:
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G01 - Tank Secondary Containment - Diking (Aboveground)
H00 - Tank Leak Detection - None
I00 - Overfill - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping

Tank Location: Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Tank Converted to Non-Regulated Use

WASTE MANAGEMENT OF NEW YORK/WM DIV. NY (Continued) **U003396745**

Pipe Model:	Not reported
Install Date:	01/01/1990
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	lube oil

E32 **RIGHT-WAY DEALER WAREHOUSE INC** **NY UST** **1001113557**
NNW **1202 METROPOLITAN AVE** **RCRA NonGen / NLR** **NYR000025478**
< 1/8 **BROOKLYN, NY 11237** **FINDS**
0.048 mi. **ECHO**
252 ft. **Site 1 of 5 in cluster E** **NY MANIFEST**

Relative:
Lower

Actual:
12 ft.

UST:

Name:	RIGHT-WAY DEALER WAREHOUSE
Address:	1202 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11237
Id/Status:	2-158445 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590509.40799
UTM Y:	4507563.03050
Site Type:	Other

Affiliation Records:

Site Id:	5303
Affiliation Type:	Facility Owner
Company Name:	KAMPNER REALTY COMPANY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	80 BUSINESS PARK DR ST 103
Address2:	Not reported
City:	ARMONK
State:	NY
Zip Code:	10504
Country Code:	001
Phone:	(914) 273-1825
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	5303
Affiliation Type:	Mail Contact
Company Name:	KAMPNER REALTY COMPANY
Contact Type:	Not reported
Contact Name:	STEVE STABILE
Address1:	80 BUSINESS PARK DR ST 103
Address2:	Not reported
City:	ARMONK
State:	NY

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

Zip Code:	10504
Country Code:	001
Phone:	(914) 273-1825
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	5303
Affiliation Type:	Facility Operator
Company Name:	RIGHT-WAY DEALER WAREHOUSE
Contact Type:	Not reported
Contact Name:	RIGHT WAY DEALER WAREHOUSE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 366-1312
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	5303
Affiliation Type:	Emergency Contact
Company Name:	KAMPNER REALTY COMPANY
Contact Type:	Not reported
Contact Name:	STEVE STABILE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(914) 273-1825
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank ID:	8516
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	1500
Install Date:	Not reported
Date Tank Closed:	06/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

Tightness Test Method: 03
Date Test: 10/01/1989
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser

Tank Number: 002
Tank ID: 51475
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 1000
Install Date: Not reported
Date Tank Closed: 06/01/1996
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0000
Common Name of Substance: Empty

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
D00 - Pipe Type - No Piping

RCRA NonGen / NLR:
Date Form Received by Agency: 20070101
Handler Name: RIGHT-WAY DEALER WAREHOUSE INC
Handler Address: 1202 METROPOLITAN AVE
Handler City,State,Zip: BROOKLYN, NY 11237-1007
EPA ID: NYR000025478
Contact Name: Not reported
Contact Address: METROPOLITAN AVE

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

Contact City,State,Zip:	BROOKLYN, NY 11237
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	METROPOLITAN AVE
Mailing City,State,Zip:	BROOKLYN, NY 11237
Owner Name:	RIGHT-WAY CORP HEADQUARTERS
Owner Type:	Private
Operator Name:	RIGHT-WAY CORP HEADQUARTERS
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D018
Waste Description:	BENZENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	RIGHT-WAY CORP HEADQUARTERS
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	RTE 22 & PUTNAM LAKE RD
Owner/Operator City,State,Zip:	BREWSTER, NY 10509
Owner/Operator Telephone:	914-278-5888
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	RIGHT-WAY CORP HEADQUARTERS
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	RTE 22 & PUTNAM LAKE RD
Owner/Operator City,State,Zip:	BREWSTER, NY 10509
Owner/Operator Telephone:	914-278-5888
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

Owner/Operator Name: RIGHT-WAY CORP HEADQUARTERS
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: RTE 22 & PUTNAM LAKE RD
Owner/Operator City,State,Zip: BREWSTER, NY 10509
Owner/Operator Telephone: 914-278-5888
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19990708
Handler Name: RIGHT-WAY DEALER WAREHOUSE INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: RIGHT-WAY DEALER WAREHOUSE INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: RIGHT-WAY DEALER WAREHOUSE INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960613
Handler Name: RIGHT-WAY DEALER WAREHOUSE INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110004525844

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1001113557
Registry ID:	110004525844
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110004525844
Name:	RIGHT-WAY DEALER WAREHOUSE INC
Address:	1202 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11237

NY MANIFEST:

Name:	RIGHT-WAY DEALERS WAREHOUSE
Address:	1202 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11237-1007
Country:	USA
EPA ID:	NYR000025478
Facility Status:	Not reported
Location Address 1:	1202 METROLPOLITAN AVENUE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

NY MANIFEST:

EPAID:	NYR000025478
Mailing Name:	RIGHT-WAY DEALERS WAREHOUSE
Mailing Contact:	TIMOTHY WILLIAMS
Mailing Address 1:	1202 METROPOLITAN AVENUE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7163661312

D33 **CON EDISON** **NY MANIFEST** **S117740707**
SE **STEWART AVE & STAGG ST** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.054 mi.
285 ft. **Site 2 of 7 in cluster D**

Relative:
Higher

Actual:
14 ft.

NY MANIFEST:

Name:	CON EDISON
Address:	STEWART AVE & STAGG ST
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP004738878
Facility Status:	Not reported
Location Address 1:	STEWART AVE & STAGG ST
Code:	BP
Location Address 2:	SB 60388
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004738878
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE - 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	02/26/2015

CON EDISON (Continued) **S117740707**

Trans1 Recv Date:	02/26/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/04/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004738878
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002610831GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

D34 **CON EDISON** **RCRA NonGen / NLR** **1018279089**
SE **STEWART AVE & STAGG ST** **FINDS** **NYP004738878**
< 1/8 **BROOKLYN, NY 11237** **ECHO**
0.054 mi.
285 ft. **Site 3 of 7 in cluster D**

Relative: **Higher**
Actual: **14 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20150226
Handler Name:	CON EDISON	
Handler Address:		STEWART AVE & STAGG ST
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYP004738878
Contact Name:		THOMAS TEELING
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		212-460-3770

CON EDISON (Continued) **1018279089**

Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	IRVING PL, 15TH FL NE
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A

CON EDISON (Continued) **1018279089**

Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160502
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20150226
Handler Name: CON EDISON	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20150226
Handler Name: CON EDISON	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

CON EDISON (Continued) **1018279089**

FINDS:
Registry ID: 110067685838

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1018279089
Registry ID:	110067685838
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110067685838
Name:	CON EDISON
Address:	STEWART AVE & STAGG ST
City,State,Zip:	BROOKLYN, NY 11237

D35 **CON EDISON** **NJ MANIFEST** **S120667927**
SE **STEWART AVE & STAGG ST** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.054 mi.
285 ft. **Site 4 of 7 in cluster D**

Relative:
Higher

Actual:
14 ft.

NJ MANIFEST:

EPA Id:	NYP004738878
Mail Address:	IRVING PL, 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002610831GBF
EPA ID:	NYP004738878
Date Shipped:	2/26/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported

CON EDISON (Continued) **S120667927**

Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

C36 **STORAGE BUILDING** **NY Spills** **S103569112**
NW **1194 METROPOLITAN AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.055 mi.
292 ft. **Site 9 of 20 in cluster C**

Relative: **Lower**

Actual: **10 ft.**

SPILLS:

Name:	1194 METROPOLITAN AVE
Address:	1194 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9107650 / 1992-11-19
Facility ID:	9107650
Facility Type:	ER
DER Facility ID:	151314
Site ID:	180407
DEC Region:	2
Spill Cause:	Other
Spill Class:	D5
SWIS:	2401
Spill Date:	1991-10-16
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	1991-10-16
CID:	Not reported
Water Affected:	Not reported

STORAGE BUILDING (Continued) **S103569112**

Spill Source:	Commercial/Industrial
Spill Notifier:	Fire Department
Cleanup Ceased:	1992-11-19
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1991-10-23
Spill Record Last Update:	2003-06-17
Spiller Name:	Not reported
Spiller Company:	DENNIS FIRPO/BUYRITE FUEL
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was AUSTIN 10/10/95: This is additional information about material spilled from the translation of the old spill file: CONTAMINATED SOIL."
Remarks:	"REFERRED TO LAW ENFORCEMENT ECO"

All Materials:

Site ID:	180407
Operable Unit ID:	958103
Operable Unit:	01
Material ID:	419844
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

Name:	STORAGE BUILDING
Address:	1194 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9514664 / 1996-02-20
Facility ID:	9514664
Facility Type:	ER
DER Facility ID:	151314
Site ID:	180408
DEC Region:	2
Spill Cause:	Other
Spill Class:	C3
SWIS:	2401
Spill Date:	1996-02-15
Investigator:	ADZHITOM
Referred To:	Not reported
Reported to Dept:	1996-02-15
CID:	199
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False

STORAGE BUILDING (Continued) **S103569112**

Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-02-15
Spill Record Last Update:	2003-04-29
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	CHIEF MUSSORFITI
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHITOMIRSKY "
Remarks:	"FIRE IN A BUILDING WHERE THEY STORE TRUCKS - FUEL LEAKING FROM 2 TRUCKS APPROX 50 GAL ATTM TO PUT OUT FIRE AND CLEAN UP NOW DEP CONTACTED "

All Materials:

Site ID:	180408
Operable Unit ID:	1029202
Operable Unit:	01
Material ID:	354793
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

C37 **CON EDISON** **NY MANIFEST** **S117066828**
NNW **FRONT OF 1196 METROPOLITAN AV** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.056 mi.
295 ft. **Site 10 of 20 in cluster C**

Relative:
Lower

Actual:
10 ft.

NY MANIFEST:

Name:	CON EDISON
Address:	FRONT OF 1196 METROPOLITAN AV
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP004595328
Facility Status:	Not reported
Location Address 1:	FRONT OF 1196 METROPOLITAN AV
Code:	BP
Location Address 2:	SB15351
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004595328
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL

CON EDISON (Continued) **S117066828**

Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/14/2014
Trans1 Recv Date:	07/14/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/14/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004595328
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002504274GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	70
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

C38 **METRO** **NY Spills** **S106007736**
NW **1188 METROPOLITAN AVE** **N/A**
< 1/8 **GREEN POINT, NY**
0.056 mi.
296 ft. **Site 11 of 20 in cluster C**

Relative:
Lower

Actual:
10 ft.

SPILLS:

Name:	METRO
Address:	1188 METROPOLITAN AVE
City,State,Zip:	GREEN POINT, NY
Spill Number/Closed Date:	0206511 / 2003-10-20
Facility ID:	0206511
Facility Type:	ER
DER Facility ID:	88204
Site ID:	99221
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C3
SWIS:	2401
Spill Date:	2002-09-23
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	2002-09-23
CID:	322
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2002-09-23
Spill Record Last Update:	2003-10-20
Spiller Name:	Not reported
Spiller Company:	METRO
Spiller Address:	1188 METROPOLITAN AVE
Spiller Company:	001
Contact Name:	DENNIS FIRPO
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEMEO 10/20/03 TJD spill closed. open spill on property is 0302832."
Remarks:	"while digging around the stick line contaminated soil found "

All Materials:

Site ID:	99221
Operable Unit ID:	858125
Operable Unit:	01
Material ID:	517115
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

C39 **TRUCK IN CREEK** **NY Spills** **S108956054**
WNW **221 ZARICK AVENUE** **N/A**
< 1/8 **BROOKLYN, NY**
0.057 mi.
303 ft. **Site 12 of 20 in cluster C**

Relative: **Lower**

Actual: **7 ft.**

SPILLS:

Name:	TRUCK IN CREEK
Address:	221 ZARICK AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0708122 / 2007-11-06
Facility ID:	0708122
Facility Type:	ER
DER Facility ID:	338525
Site ID:	388964
DEC Region:	2
Spill Cause:	Human Error
Spill Class:	C4
SWIS:	2401
Spill Date:	2007-10-25
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2007-10-25
CID:	74
Water Affected:	ENGLISH KILLS CREEK
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2007-10-25
Spill Record Last Update:	2007-11-06
Spiller Name:	GREG GALIETTI
Spiller Company:	ACTION CARTING ENV SERVIC
Spiller Address:	451 FRELINGHUYSEN AVE
Spiller Company:	001
Contact Name:	JAY KAPLAN
DEC Memo:	"Miller Env. performed cleanup. They will send documentation of work ,though not much oil/ diesel was spillend and/ or recovered."
Remarks:	"Unattended truck drove into creek - into a navigable waterway - no injuries. Fire dept is on the scene. Fuel is entering waterway - vehicle was still running. ****** CALLER REQUESTS A DEC REP CONTACT HIM ****** "

All Materials:

Site ID:	388964
Operable Unit ID:	1146117
Operable Unit:	01
Material ID:	2136479
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

C40 **MANHATTAN POLYBAG CORP** **NY Spills** **S108296225**
WNW **1150 METROPOLITAN AVE** **NY MANIFEST** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.059 mi.
310 ft. **Site 13 of 20 in cluster C**

Relative: **Lower**

Actual: **7 ft.**

SPILLS:

Name:	COMMERCIAL WAREHOUSE
Address:	1150 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0609662 / 2009-07-28
Facility ID:	0609662
Facility Type:	ER
DER Facility ID:	323677
Site ID:	373955
DEC Region:	2
Spill Cause:	Other
Spill Class:	C3
SWIS:	2401
Spill Date:	2006-11-22
Investigator:	AXDORONO
Referred To:	NFA
Reported to Dept:	2006-11-22
CID:	410
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-11-22
Spill Record Last Update:	2009-07-28
Spiller Name:	MATT BOECKEL
Spiller Company:	COMMERCIAL WAREHOUSE
Spiller Address:	1150 METROPOLITAN AVE
Spiller Company:	001
Contact Name:	MATT BOECKEL
DEC Memo:	"12/11/06-Hiralkumar Patel. received message from Matt (Cell: 631-767-9098) from Associated Environmental. spoke to John at Associated and asked him to DEC Rahman. 12/18/06 Rahman- Phase II(partial) Subsurface Investigation is prepared by Associated Environmental Services Ltd(Matthew Boeckel@631.234.4280).The site was utilized as a paving company and a oil company from at least 1807 to the late 1960s.Sanborn Fire Insurance Maps indicated the presence of large gasoline and fuel oil storage tanks.The site is currently utilized as warehouse and distribution purposes.During the Phase II investigation, soil/ground water samples were collected from the ground surface to a depth of 20' below grade.A majority of the site could not be investigated due to the presence of merchandise.Ground water flows to the west, towards English Kills.There was petroleum based odor and staining as well as elevated PID readings detected in the soil samples collected from borings B-1 through B-8. Ground water analytical results show presence of elevated levels of VOCs(MTBE- 33 ug/l,Naphthalene-6900 ug/l),SVOCs and RCRA metals.RP's consultant plans to conduct additional investigation after clearing the interior of the subject building that could not be accessed due to storage of

MANHATTAN POLYBAG CORP (Continued) **S108296225**

merchandise. Spill case is transferred to Remediation section B for determination regarding further investigation/remedial work. 1/11/2007 - Vadim Brevdo spoke with Matt (Consultant) and agreed that Site Investigation Work Plan can be submitted to Vadim Brevdo's name. Vadim Brevdo 1/25/2007 - Vadim Brevdo spoke with Matt Boeckel of Associated Environmental Service, reviwed and approved remedial investigation work plan dated January 18, 2007. Approval letter is dated January 24. 02/16/07: This spill case transferred from V. Brevdo to J. Kolleeny. Tried calling Matt Boeckel of Associated Environmental Services (631-234-4280), but he was out; spoke with John Schretzmayer, mentioned some deficiencies with reports submitted (Phase II Remedial Investigation report (2/7/07) and Interim Remedial Measure Work Plan (2/8/07)), including inaccurate boring labelling on site plan, lack of former tank locations depicted on site plan, and need for greater detail regarding remedial proposal of sodium persulfate injections, such as quantity of material to be injected and health and safety considerations. Also asked that electronic versions of each report be submitted. John said Matt will get back to me. - JK 02/23/07: After discussing deficiencies in Interim Remedial Measure Work Plan with Matt Boeckel of Assoc. Env'tal Svcs, and receiving several faxed revised versions, entitled Remedial Measure Work Plan (with site location figure, Sanborn map showing former tank locations, more detailed discussion of proposed sodium persulfate injections with health and safety considerations, added language about soil sampling during installation of permanent monitoring wells and surveying of wells to determine groundwater flow direction, analytical parameters changed to STARS list of petroleum-related VOCs and SVOCs), I sent approval letter (in eDocs) to 221 Realty Co., LLC of 500 Broadway, Brooklyn, NY 11211, attn: Alex Gross, with cc's to Ken Zucker of Beechwood Mountain, LLC and Matt of AES. Approval letter asked for additional permanent well near boring B-9, installation and sampling of permanent wells prior to chem. ox. injections to determine baseline GW conditions, and commented that if follow-up GW monitoring fails to show sodium persulfate effectiveness, alternative remedial approach must be developed. Also, sent email to Matt of AES asking for hard copy of finalized work plan report, and electronic copies of all site-related reports. - J. Kolleeny 08/07/2007: This spill case was transferred to A. Doronova. -AD 09/2007: Spoke to Matt Boeckel regarding implementation of the work plan. He said that they encountering constant refusal during soil borings, so they need to use different drilling equipment. AES plans to perform this work in a few weeks. Matt will call back with an update information. AD 01/09/2008: Call and spoke with Jon of AES regarding work plan status update. He promised to get back. AD 02/28/2008: Jon of AES called and asked if they may re-locate proposed monitoring wells due to technical difficulties (thick layer of concrete - 3ft and more). He also wants to meet with us at the site. Told him to send us a site diagram with new locations for the wells and said that site visit may be possible next week. Spoke with J. Kolleeny regarding wells installation on this site. Called and left a message to Jon of AES. Talked later with him regarding concrete specification, groundwater depth and if air rotary drilling was applied. Jon said that concrete is re-bar concrete; air rotary drilling could not be applied due to low clearance - 8' and groundwater depth from the basement floor is about 5' deep. The site visit was scheduled on Monday, March 3, 2008. AD 03/03/2008: Received a message from AES, left on Friday, February 29, 2008 at 5 PM, that

MANHATTAN POLYBAG CORP (Continued) **S108296225**

they would like to re-schedule site visit. Called and spoke with Christina of AES. The site visit was cancelled for today. AD 03/05/2008: Scheduled new site visit for Friday March 7, 2008. AD 03/07/2008: Visited the site with J. Kolleeny. Met there with John Schretzmayer of AES. He showed the property and explained why some of the injection points could not be installed. The soil has some elevated levels of SVOC contamination, groundwater result indicates exeedances in VOC. We discussed the implementation of the proposed remedial action plan and agreed to reduce the numbers of proposed injection point from 21 to 15 and add one more monitoring well. AD 08/07/2008: Called and left a message to J. Schretzmayer of AES regarding a summary report submission. AD 08/14/2008: Called and left a message to J. Schretzmayer of AES. AD 08/15/2008: Received a message from AES. The hard copy of the report will be submitted next week. AD 09/19/2008: Did not receive report. Spoke with a secretary of AES, left a message for J. Schretzmayer regarding the report submission. AD 10/14/2008: Called and left a message to J. Schretzmayer to call me back. AES email address is: <AssociatedEnv@aol.com>. AD 10/29/2008: Received the report. DL to eDocs. Will review. AD 11/03/2008: Reviewed the report. It states that a total of four monitoring wells were installed at the site. The analytical results for the April 2008 groundwater samples indicated that there were several VOCs and SVOCs at concentrations exceeding their NYSDEC standards (MTBE in MW-01 at 44 ppb). To remove dissolved phase contamination in the groundwater, AES used sodium persulfate solution (oxidizer) by introducing it via 14 injection wells at a depth of 10 to 15' bellow grade. October 2008 groundwater sampling event was scheduled to determine if the chemical oxidant solution has effectively reduced contaminant concentrations in the groundwater. A summary report will be provided to DEC following October 2008 monitoring event with conclusions and recommendations. AD 03/30/2009: Called to AES and left a message to a secretary for J. Shretzmayer regarding a QMR submission. AD 04/27/2009: Did not receive any response yet. Called and left a message to Mr. Shretzmayer. AD 05/08/2009: Received ecopy of the IRM - Groundwater Sampling Report from J. Shretzmayer of AES via e-mail. DL to eDocs. AD 05/11/2009: Received a hard copy of the report. Will review. AD 05/14/2009: Reviewed the report. It states that on February 9, 2009 AES sampled three out of four monitoring wells at the site. The most contaminated well MW-4 could not be located due to the debris and reorganization of the warehouse. Baseline GW sampling in April 2008 indicated several VOCs and SVOCs at concentrations exceeding their NYSDEC standards (MTBE in MW-01 at 44 ppb). February 2009 sampling results indicated lower levels of SVOCs and MTBE in well MW-1 and ND levels of VOCs and SVOCs in wells MW-2 and MW-3. Based on the analytical results of the GW sampling and due to the fact that the subject site is occupied and soil removal is not feasible, the consultant recommends no further actions for this site. Discussed the site with J. Kolleeny of DEC. Called and spoke with Christine Mazzarella of AES. Asked if the location of the well MW-4 could be found, they should sample it, if not - than they should try to collect groundwater grab sample in its vicinity. Ms. Mazzarella will get back to us with their response. AD 07/13/2009: Received an e-mail from C. Mazzarella of AES saying: Hello Ainura Attached please find subject report for your review.? Please reference?Spill #06-09662. Please contact us with any questions or comments following your review of the attached. Thank you Christine Mazzarella Associated Environmental

MANHATTAN POLYBAG CORP (Continued) **S108296225**

Services, Ltd. 25 Central Avenue Hauppauge, New York 11788 631 234 4280 tel 631 234 4297 fax DL the report to eDocs. Will review. AD 07/21/2009: Reviewed the report. It states that on May 27, 2009 AES sampled one temporary well point in the vicinity of well MW-4, according to the DEC request. The most contaminated well MW-4 could not be located during previous sampling event, due to the debris and reorganization of the warehouse. May 2009 sampling results indicated low levels of SVOCs and MTBE and ND levels of VOCs in the area of well MW-4. Based on historical analytical results of the GW sampling and due to the fact that the subject site is occupied and soil removal is not feasible, the consultant recommends no further actions for this site. Discussed the site with J. Kolleeny of DEC. Taking into consideration investigative and remedial activities performed at the site, clear decreasing trend of VOCs and SVOCs in GW, and current GW conditions, it was decided to approve NFA request for this site. AD 07/27/2009: Issued and sent NFA letter. DL to eDocs. Case closed. AD"

Remarks: "PHASE TWO CONDUCTED AT SITE: LAB RESULTS REVEALED ELEVATED CONATMINENTS IN SOIL AND GROUNDWATER ABOVE STATE LEVEL: SITE WAS HISTORIACALLY UTILIZED FROM EARLY 1900'S TO THE LATE 1960'S AS A ASPHALT PAVING COMPANY, AND OIL TERMINAL:"

All Materials:

Site ID:	373955
Operable Unit ID:	1131643
Operable Unit:	01
Material ID:	2121356
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

NY MANIFEST:

Name:	MANHATTAN POLYBAG CORP
Address:	1150 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11237-0000
Country:	USA
EPA ID:	NYD982272627
Facility Status:	Not reported
Location Address 1:	1150 METROPOLITAN AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD982272627
Mailing Name:	MANHATTAN POLYBAG CORP
Mailing Contact:	GARY KAUFMAN
Mailing Address 1:	1150 METROPOLITAN AVE

MANHATTAN POLYBAG CORP (Continued) **S108296225**

Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7183264770

C41 **MANHATTAN POLY BAG** **RCRA NonGen / NLR** **1007204964**
WNW **1150 METROPOLITAN AVENUE** **NY MANIFEST** **NYD098227267**
< 1/8 **BROOKLYN, NY 11237**
0.059 mi.
310 ft. **Site 14 of 20 in cluster C**

Relative: **Lower**
Actual: **7 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20070101
Handler Name:	MANHATTAN POLY BAG	
Handler Address:		1150 METROPOLITAN AVENUE
Handler City,State,Zip:		BROOKLYN, NY 11237-0000
EPA ID:		NYD098227267
Contact Name:		GARY KAUFMAN
Contact Address:		1150 METROPOLITAN AVENUE
Contact City,State,Zip:		BROOKLYN, NY 11237-0000
Contact Telephone:		718-326-4770 9999
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		1150 METROPOLITAN AVENUE
Mailing City,State,Zip:		BROOKLYN, NY 11237-0000
Owner Name:		Not reported
Owner Type:		Not reported
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported

MANHATTAN POLY BAG (Continued) **1007204964**

Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20060101
Handler Name: MANHATTAN POLY BAG	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101

MANHATTAN POLY BAG (Continued) **1007204964**

Handler Name: MANHATTAN POLY BAG
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920120
Handler Name: MANHATTAN POLY BAG
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 322223
NAICS Description: COATED PAPER BAG AND POUCH MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

NY MANIFEST:
Name: MANHATTAN POLYBAG CO
Address: 1150 METROPOLITAN AVENUE
City,State,Zip: BROOKLYN, NY 11237-0000
Country: USA
EPA ID: NYD098227267
Facility Status: Not reported
Location Address 1: 1150 METROPOLITAN AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11237
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD098227267
Mailing Name: MANHATTAN POLYBAG CO
Mailing Contact: MANHATTAN POLYBAG CO

MANHATTAN POLY BAG (Continued) **1007204964**

Mailing Address 1:	1150 METROPOLITAN AVENUE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7183264770

C42 **MANHATTAN POLY BAG CORP** **RCRA-VSQG 1000239979**
WNW **METROPOLITAN AVE** **NY AST NYD982272627**
< 1/8 **BROOKLYN, NY 11237**
0.059 mi.
310 ft. **Site 15 of 20 in cluster C**

Relative: **Lower**

Actual: **7 ft.**

RCRA-VSQG:

Date Form Received by Agency:	20070101
Handler Name:	MANHATTAN POLY BAG CORP
Handler Address:	METROPOLITAN AVE
Handler City,State,Zip:	BROOKLYN, NY 11237
EPA ID:	NYD982272627
Contact Name:	GARY R KAUFMAN
Contact Address:	METROPOLITAN AVE
Contact City,State,Zip:	BROOKLYN, NY 11237
Contact Telephone:	718-326-4770
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	METROPOLITAN AVE
Mailing City,State,Zip:	BROOKLYN, NY 11237
Owner Name:	WILLIAM KAUFMAN
Owner Type:	Private
Operator Name:	MANHATTAN POLY REALTY
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

MANHATTAN POLY BAG CORP (Continued) **1000239979**

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: NONE
Waste Description: Not Defined

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MANHATTAN POLY REALTY
Legal Status:	Private
Date Became Current:	19861201
Date Ended Current:	Not reported
Owner/Operator Address:	METROPOLITAN AVE
Owner/Operator City,State,Zip:	BROOKLYN, NY 11237
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MANHATTAN POLY REALTY
Legal Status:	Private
Date Became Current:	19861201
Date Ended Current:	Not reported
Owner/Operator Address:	METROPOLITAN AVE
Owner/Operator City,State,Zip:	BROOKLYN, NY 11237
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	WILLIAM KAUFMAN
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: WILLIAM KAUFMAN
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MANHATTAN POLY BAG
Legal Status: Private
Date Became Current: 19861201
Date Ended Current: Not reported
Owner/Operator Address: METROPOLITAN AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19990729
Handler Name: MANHATTAN POLY BAG CORP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: MANHATTAN POLY BAG CORP
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: MANHATTAN POLY BAG CORP
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19870911
Handler Name: MANHATTAN POLY BAG CORP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19980225
Handler Name: MANHATTAN POLY BAG
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010101
Handler Name: MANHATTAN POLY BAG CORP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020221
Handler Name: MANHATTAN POLY BAG CORP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040228
Handler Name: MANHATTAN POLY BAG CORP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 322223
NAICS Description: COATED PAPER BAG AND POUCH MANUFACTURING

NAICS Code: 323112
NAICS Description: COMMERCIAL FLEXOGRAPHIC PRINTING

NAICS Code: 326112
NAICS Description: PLASTICS PACKAGING FILM AND SHEET (INCLUDING LAMINATED) MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 19940325
Actual Return to Compliance Date: 19940428
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19940425
Enforcement Identifier: 000
Date of Enforcement Action: 19940325
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: NY
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYADS
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

MANHATTAN POLY BAG CORP (Continued) **1000239979**

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19940325
Actual Return to Compliance Date: 19940428
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19940425
Enforcement Identifier: 000
Date of Enforcement Action: 19940325
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: NY
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYADS
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

MANHATTAN POLY BAG CORP (Continued) **1000239979**

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20020128
Actual Return to Compliance Date: 20020221
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Date of Enforcement Action:	20020204
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	NYHHN
Enforcement Responsible Sub-Organization:	R2
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19940125
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYADS
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	19940428
Scheduled Compliance Date:	19940425
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920415
Evaluation Responsible Agency:	EPA Contractor/Grantee
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R2TRC
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930119

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R2
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19940125
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYADS
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	19940428
Scheduled Compliance Date:	19940425
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19981111
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R2MD
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20020128
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYHHN
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20020221
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

AST:

Name:	MANHATTAN POLY BAG CORP
Address:	1150 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11237
Region:	STATE

MANHATTAN POLY BAG CORP (Continued) **1000239979**

DEC Region: 2
Site Status: Active
Facility Id: 2-248746
Program Type: PBS
UTM X: 590352.85630
UTM Y: 4507571.99810
Expiration Date: 07/07/2007
Site Type: Other

Affiliation Records:

Site Id: 9843
Affiliation Type: Facility Owner
Company Name: MANHATTAN POLY BAG CORP
Contact Type: Not reported
Contact Name: Not reported
Address1: 1150 METROPOLITAN AVE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11237
Country Code: 001
Phone: (718) 326-4770
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Site Id: 9843
Affiliation Type: Mail Contact
Company Name: MANHATTAN POLY BAG CORP
Contact Type: Not reported
Contact Name: GARY KAUFMAN
Address1: 1150 METROPOLITAN AVE
Address2: PO BOX 370-713
City: BROOKLYN
State: NY
Zip Code: 11237
Country Code: 001
Phone: (718) 326-4770
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Site Id: 9843
Affiliation Type: Facility Operator
Company Name: MANHATTAN POLY BAG CORP
Contact Type: Not reported
Contact Name: GARY KAUFMAN
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 326-4770
EMail: Not reported
Fax Number: Not reported

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Modified By:	TRANSLAT
Date Last Modified:	2004-03-04
Site Id:	9843
Affiliation Type:	Emergency Contact
Company Name:	MANHATTAN POLY BAG CORP
Contact Type:	Not reported
Contact Name:	GARY KAUFMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 326-4770
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	004
Tank Id:	11157
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

	A00 - Tank Internal Protection - None
	D01 - Pipe Type - Steel/Carbon Steel/Iron
	I04 - Overfill - Product Level Gauge (A/G)
	F00 - Pipe External Protection - None
	B00 - Tank External Protection - None
	C00 - Pipe Location - No Piping
	G00 - Tank Secondary Containment - None
	J02 - Dispenser - Suction Dispenser
	H00 - Tank Leak Detection - None
	L09 - Piping Leak Detection - Exempt Suction Piping
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

C43 **LOT** **NY Spills** **S125359732**
WNW **1150 METROPOLITAN AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.059 mi.
310 ft. **Site 16 of 20 in cluster C**

Relative: **Lower**

Actual: **7 ft.**

SPILLS:

Name:	LOT
Address:	1150 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1905844 / 2019-09-24
Facility ID:	1905844
Facility Type:	ER
DER Facility ID:	323677
Site ID:	593894
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Spill Date:	2019-09-05
Investigator:	RHLIN
Referred To:	Not reported
Reported to Dept:	2019-09-05
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2019-09-05
Spill Record Last Update:	2019-09-24
Spiller Name:	Not reported
Spiller Company:	METRO DIESEL GARAGE INC
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	CELEST OKOLI
DEC Memo:	"9/5/19- Zhune called Celest Okoli 347-672-6059. Could not get him. Left a massage. 9/5/19- At 1:30pm Zhune called Celest Okoli 347-672-6059. Could not get him. Left a massage. 9/6/19-Zhune called Celest Okoli 347-672-6059. Could not get him. Left a massage. 9/6/19-celest called Zhune. Celest said the company is Metro Diesel Garage. the saddle tank of one of the trucks is leaking. Spill went to the catch basin and it went to the ground. There is a sheen into the waterway. Diesel is seeping gradually to the river. At the back of the truck is the river. Power Vac was hire to clean the spill in the catch basin. 9/6/19-Lin-Visited site. Truck is no longer leaking. Speedy dry was put down. No soil contamination was found. No sheen was observed in the creek. Case closed. Metro Diesel Garage 718-381-5050 "
Remarks:	"loss to soil from vehicles"

All Materials:

Site ID:	593894
Operable Unit ID:	1341468
Operable Unit:	01
Material ID:	2351376

LOT (Continued) **S125359732**

Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

C44 **AID AUTO STORES, INC.** **RCRA NonGen / NLR** **1000102708**
WNW **1150 METROPOLITAN AVE** **FINDS** **NYD058581497**
< 1/8 **BROOKLYN, NY 11237** **ECHO**
0.059 mi.
310 ft. **Site 17 of 20 in cluster C**

Relative: **Lower**
Actual: **7 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20070101
Handler Name:	AID AUTO STORES, INC.	
Handler Address:		1150 METROPOLITAN AVE
Handler City,State,Zip:		BROOKLYN, NY 11237-1006
EPA ID:		NYD058581497
Contact Name:		Not reported
Contact Address:		METROPOLITAN AVE
Contact City,State,Zip:		BROOKLYN, NY 11237
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		METROPOLITAN AVE
Mailing City,State,Zip:		BROOKLYN, NY 11237
Owner Name:		AID AUTO STORES INC.
Owner Type:		Private
Operator Name:		AID AUTO STORES INC.
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported

AID AUTO STORES, INC. (Continued) **1000102708**

Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D002
Waste Description:	CORROSIVE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	AID AUTO STORES INC.
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported

AID AUTO STORES, INC. (Continued) **1000102708**

Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	AID AUTO STORES INC.
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	AID AUTO STORES INC.
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990708
Handler Name: AID AUTO STORES, INC.	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20060101
Handler Name: AID AUTO STORES, INC.	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

AID AUTO STORES, INC. (Continued) **1000102708**

Receive Date: 20070101
Handler Name: AID AUTO STORES, INC.
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19820311
Handler Name: AID AUTO STORES, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

AID AUTO STORES, INC. (Continued) **1000102708**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19880930
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYDEC
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:

Registry ID: 110009467460

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000102708
Registry ID:	110009467460
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009467460
Name:	AID AUTO STORES, INC.
Address:	1150 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11237

F45 **ALJO AUTO ELECTRIC CORP** **RCRA NonGen / NLR** **1000912276**
NE **1250 METROPOLITAN AVE** **NY0000575225**
< 1/8 **BROOKLYN, NY 11237**
0.064 mi.
338 ft. **Site 1 of 9 in cluster F**

Relative: **Lower**
Actual: **13 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20070101
Handler Name:	ALJO AUTO ELECTRIC CORP
Handler Address:	1250 METROPOLITAN AVE
Handler City,State,Zip:	BROOKLYN, NY 11237-1103
EPA ID:	NY0000575225
Contact Name:	Not reported
Contact Address:	PO BOX 704
Contact City,State,Zip:	BROOKLYN, NY 11237
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	PO BOX 704
Mailing City,State,Zip:	BROOKLYN, NY 11237
Owner Name:	ANGELO BORGIA
Owner Type:	Private
Operator Name:	ANGELO BORGIA
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

ALJO AUTO ELECTRIC CORP (Continued) **1000912276**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D035
Waste Description:	METHYL ETHYL KETONE
Waste Code:	D040
Waste Description:	TRICHLORETHYLENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ANGELO BORGIA
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 704
Owner/Operator City,State,Zip:	BROOKLYN, NY 11237
Owner/Operator Telephone:	718-417-6771
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

ALJO AUTO ELECTRIC CORP (Continued) **1000912276**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ANGELO BORGIA
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 704
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-417-6771
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ANGELO BORGIA
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 704
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-417-6771
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19990708
Handler Name: ALJO AUTO ELECTRIC CORP
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: ALJO AUTO ELECTRIC CORP
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: ALJO AUTO ELECTRIC CORP
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY

ALJO AUTO ELECTRIC CORP (Continued) **1000912276**

Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19940811
Handler Name:	ALJO AUTO ELECTRIC CORP
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

F46 **CONSOLIDATED PACKAGING GROUP INC-1250 METROPOLITA** **NY AIRS S106534423**
NE **1250 METROPOLITAN AVE** **NY MANIFEST N/A**
< 1/8 **BROOKLYN, NY 11237**
0.064 mi.
338 ft. **Site 2 of 9 in cluster F**

Relative: **Lower**
Actual: **13 ft.**

AIRS:

Name:	CONSOLIDATED PACKAGING GROUP INC-1250 METROPOLITA
Address:	1250 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11237
DECID:	2610400151
Process ID:	Not reported
Latitude:	40.714328098
Longitude:	73.926174116
FIPS Code:	Not reported
Auth Type Code:	ATV
Permit Status:	Expired
Auth Status Code:	Not reported
Emissions:	Not reported
Issue date:	11/29/2005
Expired Date:	03/20/2006
Emission Unit date:	Not reported
Contamination:	Not reported

CONSOLIDATED PACKAGING GROUP INC-1250 METROPOLITA (Continued) **S106534423**

EPA Control Code: Not reported
Control Eff: Not reported
Unit: Not reported

Permit Status: Expired
Auth Status Code: Not reported
Emissions: Not reported
Issue date: 03/20/2006
Expired Date: Not reported
Emission Unit date: Not reported
Contamination: Not reported
EPA Control Code: Not reported
Control Eff: Not reported
Unit: Not reported

Permit Status: Expired
Auth Status Code: Not reported
Emissions: Not reported
Issue date: 11/14/2001
Expired Date: 03/20/2006
Emission Unit date: Not reported
Contamination: Not reported
EPA Control Code: Not reported
Control Eff: Not reported
Unit: Not reported

Permit Status: Not reported
Auth Status Code: Not reported
Emissions: 0.01061656
Issue date: Not reported
Expired Date: Not reported
Emission Unit date: UFAC01
Contamination: PM25-PRI
EPA Control Code: Not reported
Control Eff: Not reported
Unit: TON

Permit Status: Not reported
Auth Status Code: Not reported
Emissions: 0.04871279
Issue date: Not reported
Expired Date: Not reported
Emission Unit date: EI0001
Contamination: PM25-PRI
EPA Control Code: Not reported
Control Eff: Not reported
Unit: TON

Permit Status: Not reported
Auth Status Code: Not reported
Emissions: 0.0031
Issue date: Not reported
Expired Date: Not reported
Emission Unit date: UFAC01
Contamination: 7440439
EPA Control Code: Not reported
Control Eff: Not reported

CONSOLIDATED PACKAGING GROUP INC-1250 METROPOLITA (Continued) **S106534423**

Unit:	LB
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	0
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	UFAC01
Contamination:	7440417
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	LB
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	0
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	UFAC01
Contamination:	206440
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	LB
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	0
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	UFAC01
Contamination:	205992
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	LB
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	0.1405
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	UFAC01
Contamination:	NOX
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	TON
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	0.0002
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	UFAC01
Contamination:	7440484
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	LB

CONSOLIDATED PACKAGING GROUP INC-1250 METROPOLITA (Continued) **S106534423**

Click this hyperlink while viewing on your computer to access
37 additional NY AIRS: record(s) in the EDR Site Report.

NY MANIFEST:

Name:	CONSOLIDATED PACKAGING
Address:	1250 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYD986892412
Facility Status:	Not reported
Location Address 1:	1250 METROPOLITAN AV
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD986892412
Mailing Name:	CONSOLIDATED PACKAGING
Mailing Contact:	CONSOLIDATED PACKAGING
Mailing Address 1:	1250 METROPOLITAN AVENUE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7184173434

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	12/07/2006
Trans1 Recv Date:	12/07/2006
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/07/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002182897
TSDF ID 2:	Not reported
Manifest Tracking Number:	000189063CEX
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N

CONSOLIDATED PACKAGING GROUP INC-1250 METROPOLITA (Continued) **S106534423**

Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H020
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	15750
Units:	P - Pounds
Number of Containers:	63
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Waste Code:	F003
Waste Code 1_2:	F005
Waste Code 1_3:	D001
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

F47 **CONSOLIDATED PACKAGING GROUP** **RCRA-SQG** **1000245333**
NE **1250 METROPOLITAN AVE** **FINDS** **NYD986892412**
< 1/8 **BROOKLYN, NY 11237** **ECHO**
0.064 mi. **NJ MANIFEST**
338 ft. **Site 3 of 9 in cluster F**

Relative: **Lower**
Actual: **13 ft.**

RCRA-SQG:

Date Form Received by Agency:	20080307
Handler Name:	CONSOLIDATED PACKAGING GROUP
Handler Address:	1250 METROPOLITAN AVE
Handler City,State,Zip:	BROOKLYN, NY 11237
EPA ID:	NYD986892412
Contact Name:	GARY KAUFMAN
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	201-440-4240
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2007
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	BERGEN TNPK
Mailing City,State,Zip:	RIDGEFIELD PARK, NJ 07660
Owner Name:	CONSOLIDATED PACKAGING
Owner Type:	Private
Operator Name:	CONSOLIDATED PACKAGING

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210909
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Biennial: List of Years
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: RELIABLE POLY PACKAGING CO - ALEX GROSS
Legal Status: Private
Date Became Current: 20040101
Date Ended Current: Not reported
Owner/Operator Address: 1250 METROPOLITAN AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-326-4770
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: RELIABLE POLY PACK: CO
Legal Status: Private
Date Became Current: 19800101

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Date Ended Current:	Not reported
Owner/Operator Address:	METROPOLITAN AVE
Owner/Operator City,State,Zip:	BROOKLYN, NY 11237
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	RELIABLE POLY PACKAGING CO - ALEX GROSS
Legal Status:	Private
Date Became Current:	20040101
Date Ended Current:	Not reported
Owner/Operator Address:	1250 METROPOLITAN AVE
Owner/Operator City,State,Zip:	BROOKLYN, NY 11237
Owner/Operator Telephone:	718-326-4770
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	RELIABLE POLY PACKAGING CO INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RELIABLE POLY PACK: CO
Legal Status:	Private
Date Became Current:	19800101
Date Ended Current:	Not reported
Owner/Operator Address:	METROPOLITAN AVE
Owner/Operator City,State,Zip:	BROOKLYN, NY 11237
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CONSOLIDATED PACKAGING
Legal Status:	Private
Date Became Current:	19801231
Date Ended Current:	Not reported
Owner/Operator Address:	30 BERGEN TNPK
Owner/Operator City,State,Zip:	RIDGEFIELD PARK, NJ 07660
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Owner/Operator Name: CONSOLIDATED PACKAGING GROUP LLC
Legal Status: Private
Date Became Current: 20040101
Date Ended Current: Not reported
Owner/Operator Address: 1250 METROPOLITAN AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-326-4770
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ALEX GROSS
Legal Status: Private
Date Became Current: 19800101
Date Ended Current: Not reported
Owner/Operator Address: METROPOLITAN AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CONSOLIDATED PACKAGING
Legal Status: Private
Date Became Current: 19801231
Date Ended Current: Not reported
Owner/Operator Address: 30 BERGEN TNPK
Owner/Operator City,State,Zip: RIDGEFIELD PARK, NJ 07660
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20060101
Handler Name: CONSOLIDATED PACKAGING GROUP LLC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: CONSOLIDATED PACKAGING GROUP LLC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900308
Handler Name: RELIABLE POLY PACKAGING CO INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20041216
Handler Name: CONSOLIDATED PACKAGING GROUP LLC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010101
Handler Name: RELIABLE POY PACK CO
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020219
Handler Name: RELIABLE POLY RACK
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Receive Date: 20040121
Handler Name: RELIABLE POLY PACK: CO
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20080307
Handler Name: CONSOLIDATED PACKAGING GROUP
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: Not reported
Recognized Trader Exporter: Not reported
Spent Lead Acid Battery Importer: Not reported
Spent Lead Acid Battery Exporter: Not reported
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 322223
NAICS Description: COATED PAPER BAG AND POUCH MANUFACTURING

NAICS Code: 326111
NAICS Description: PLASTICS BAG AND POUCH MANUFACTURING

NAICS Code: 326112
NAICS Description: PLASTICS PACKAGING FILM AND SHEET (INCLUDING LAMINATED) MANUFACTURING

NAICS Code: 326199
NAICS Description: ALL OTHER PLASTICS PRODUCT MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Disposition Status Date: 20100407
Disposition Status: DR
Disposition Status Description: DROPPED
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: NYJRI
Enforcement Responsible Sub-Organization: CO
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 36370
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20100407
Disposition Status: DR
Disposition Status Description: DROPPED
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: NYJRI
Enforcement Responsible Sub-Organization: CO
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 36370
Final Monetary Amount: Not reported
Paid Amount: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20100407
Disposition Status: DR
Disposition Status Description: DROPPED
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: NYJRI
Enforcement Responsible Sub-Organization: CO
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 36370
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Disposition Status Date:	20100407
Disposition Status:	DR
Disposition Status Description:	DROPPED
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	NYJRI
Enforcement Responsible Sub-Organization:	CO
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	36370
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20100407
Disposition Status: DR
Disposition Status Description: DROPPED
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: NYJRI
Enforcement Responsible Sub-Organization: CO
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 36370
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Disposition Status Date:	20100407
Disposition Status:	DR
Disposition Status Description:	DROPPED
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	NYJRI
Enforcement Responsible Sub-Organization:	CO
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	36370
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20061219
Actual Return to Compliance Date:	20100407
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20080118
Enforcement Responsible Agency:	State
Enforcement Docket Number:	CO2-200711224-1
Enforcement Attorney:	C.C.
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	20100407
Disposition Status:	DR
Disposition Status Description:	DROPPED
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	NYJRI
Enforcement Responsible Sub-Organization:	CO
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	36370
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Container Use and Management
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20100407
Disposition Status: DR
Disposition Status Description: DROPPED
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: NYJRI
Enforcement Responsible Sub-Organization: CO
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 36370
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Container Use and Management
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Disposition Status Date:	20100407
Disposition Status:	DR
Disposition Status Description:	DROPPED
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	NYJRI
Enforcement Responsible Sub-Organization:	CO
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	36370
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20061219
Actual Return to Compliance Date:	20100407
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20080118
Enforcement Responsible Agency:	State
Enforcement Docket Number:	CO2-200711224-1
Enforcement Attorney:	C.C.
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	20100407
Disposition Status:	DR
Disposition Status Description:	DROPPED
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	NYJRI
Enforcement Responsible Sub-Organization:	CO
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	36370
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20100407
Disposition Status: DR
Disposition Status Description: DROPPED
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: NYJRI
Enforcement Responsible Sub-Organization: CO
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 36370
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	20061219
Actual Return to Compliance Date:	20100407
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20080118
Enforcement Responsible Agency:	State
Enforcement Docket Number:	CO2-200711224-1
Enforcement Attorney:	C.C.
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	20100407
Disposition Status:	DR
Disposition Status Description:	DROPPED
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	NYJRI
Enforcement Responsible Sub-Organization:	CO
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	36370
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20100407
Disposition Status: DR
Disposition Status Description: DROPPED
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: NYJRI
Enforcement Responsible Sub-Organization: CO
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 36370
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 20051206
Actual Return to Compliance Date: 20060220
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20060120
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R2AHJ
Enforcement Responsible Sub-Organization: RPB
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20100407
Disposition Status: DR
Disposition Status Description: DROPPED
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: NYJRI
Enforcement Responsible Sub-Organization: CO
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 36370
Final Monetary Amount: Not reported
Paid Amount: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-General Facility Standards
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20100407
Disposition Status: DR
Disposition Status Description: DROPPED
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: NYJRI
Enforcement Responsible Sub-Organization: CO
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 36370
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Disposition Status Date:	20100407
Disposition Status:	DR
Disposition Status Description:	DROPPED
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	NYJRI
Enforcement Responsible Sub-Organization:	CO
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	36370
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-General Facility Standards
Date Violation was Determined:	20061219
Actual Return to Compliance Date:	20100407
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20080118
Enforcement Responsible Agency:	State
Enforcement Docket Number:	CO2-200711224-1
Enforcement Attorney:	C.C.
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	20100407
Disposition Status:	DR
Disposition Status Description:	DROPPED
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	NYJRI
Enforcement Responsible Sub-Organization:	CO
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	36370
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 20051206
Actual Return to Compliance Date: 20060220
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20060120
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R2AHJ
Enforcement Responsible Sub-Organization: RPB
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 20061219
Actual Return to Compliance Date: 20100407
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20080118
Enforcement Responsible Agency: State
Enforcement Docket Number: CO2-200711224-1
Enforcement Attorney: C.C.
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20100407
Disposition Status: DR
Disposition Status Description: DROPPED
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: NYJRI
Enforcement Responsible Sub-Organization: CO
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 36370
Final Monetary Amount: Not reported
Paid Amount: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 20051206
Actual Return to Compliance Date: 20060220
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20060120
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R2AHJ
Enforcement Responsible Sub-Organization: RPB
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20070816
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier: NYTLR
Evaluation Responsible Sub-Organization: CO
Actual Return to Compliance Date: 20100407
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20070816
Evaluation Responsible Agency: State

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Found Violation:	Yes
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	NYTLR
Evaluation Responsible Sub-Organization:	CO
Actual Return to Compliance Date:	20100407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20061219
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYJRI
Evaluation Responsible Sub-Organization:	CO
Actual Return to Compliance Date:	20100407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20061219
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYJRI
Evaluation Responsible Sub-Organization:	CO
Actual Return to Compliance Date:	20100407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R2
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070816
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	NYTLR
Evaluation Responsible Sub-Organization:	CO
Actual Return to Compliance Date:	20100407

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20061219
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYJRI
Evaluation Responsible Sub-Organization:	CO
Actual Return to Compliance Date:	20100407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20061219
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYJRI
Evaluation Responsible Sub-Organization:	CO
Actual Return to Compliance Date:	20100407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070816
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	NYTLR
Evaluation Responsible Sub-Organization:	CO
Actual Return to Compliance Date:	20100407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20061219
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYJRI
Evaluation Responsible Sub-Organization:	CO
Actual Return to Compliance Date:	20100407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Evaluation Date:	20070816
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	NYTLR
Evaluation Responsible Sub-Organization:	CO
Actual Return to Compliance Date:	20100407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20061219
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYJRI
Evaluation Responsible Sub-Organization:	CO
Actual Return to Compliance Date:	20100407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19981110
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R2MD
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070816
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	NYTLR
Evaluation Responsible Sub-Organization:	CO
Actual Return to Compliance Date:	20100407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070816
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	NYTLR

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Evaluation Responsible Sub-Organization: CO
Actual Return to Compliance Date: 20100407
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20051206
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R2AHJ
Evaluation Responsible Sub-Organization: RCB
Actual Return to Compliance Date: 20060220
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20070816
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier: NYTLR
Evaluation Responsible Sub-Organization: CO
Actual Return to Compliance Date: 20100407
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20070816
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier: NYTLR
Evaluation Responsible Sub-Organization: CO
Actual Return to Compliance Date: 20100407
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20061219
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYJRI
Evaluation Responsible Sub-Organization: CO
Actual Return to Compliance Date: 20100407
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20061219
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYJRI
Evaluation Responsible Sub-Organization: CO
Actual Return to Compliance Date: 20100407
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20100407
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier: NYJHE
Evaluation Responsible Sub-Organization: CO
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20051206
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R2AHJ
Evaluation Responsible Sub-Organization: RCB
Actual Return to Compliance Date: 20060220
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20061219
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYJRI
Evaluation Responsible Sub-Organization: CO
Actual Return to Compliance Date: 20100407
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20051206
Evaluation Responsible Agency: EPA

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R2AHJ
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	20060220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110009462465

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000245333
Registry ID:	110009462465
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009462465
Name:	ALJO AUTO ELECTRIC CORP
Address:	1250 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11237

NJ MANIFEST:

EPA Id:	NYD986892412
Mail Address:	Not reported
Mail City/State/Zip:	Not reported
Facility Phone:	7184173434
Emergency Phone:	Not reported
Contact:	ALEX GROSS
Comments:	Not reported
SIC Code:	Not reported
County:	00
Municipal:	00
Previous EPA Id:	Not reported
Gen Flag:	X
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	000000

Manifest:

Manifest Number:	000679165SKS
EPA ID:	NYD986892412
Date Shipped:	01/07/2008

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	01/07/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	01/07/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	F003
Hand Code:	H020
Quantity:	15000 P

Manifest Number:	NJA5114181
EPA ID:	NYD986892412
Date Shipped:	02/06/2005
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	02/06/2005
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	02/06/2005
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	03170621
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Manifest Number:	000578838SKS
EPA ID:	NYD986892412
Date Shipped:	09/17/2007
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	09/17/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	09/17/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	F003
Hand Code:	H02
Quantity:	16000 P

Manifest Number:	NJA5112384
EPA ID:	NYD986892412
Date Shipped:	05/09/2006
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/09/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/09/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06210621
Was Load Rejected:	No

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Reason Load Was Rejected:	Not reported
Manifest Number:	NJA5112622
EPA ID:	NYD986892412
Date Shipped:	05/23/2005
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/23/2005
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/23/2005
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06240521
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported
Manifest Number:	000651382SKS
EPA ID:	NYD986892412
Date Shipped:	11/19/2007
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Date Trans1 Transported Waste:	11/19/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/19/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Manifest Number:	000189538CEX
EPA ID:	NYD986892412
Date Shipped:	02/07/2007
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	02/07/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	02/07/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H06
Quantity:	16000 P

Manifest Number:	NJA5297831
EPA ID:	NYD986892412
Date Shipped:	08/28/2006
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/28/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/28/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	09270621
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Manifest Number:	NJA5042852
EPA ID:	NYD986892412
Date Shipped:	08/15/2005
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/15/2005
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/15/2005
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	09120521
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Manifest Number:	000224455SKS
EPA ID:	NYD986892412
Date Shipped:	05/30/2007
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/30/2007
Date Trans2 Transported Waste:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/30/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	F003
Hand Code:	H02
Quantity:	16000 P

Manifest Number:	NJA5083330
EPA ID:	NYD986892412
Date Shipped:	02/05/2004
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	02/05/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	02/05/2004
TSDF EPA Facility Name:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	03170421
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Manifest Number:	NJA5114254
EPA ID:	NYD986892412
Date Shipped:	11/23/2005
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/23/2005
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/23/2005
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	02140621
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Manifest Number:	004257981JJK

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

EPA ID:	NYD986892412
Date Shipped:	08/19/2008
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD980772768
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/19/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/19/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	5 P

Manifest Number:	000292262SKS
EPA ID:	NYD986892412
Date Shipped:	07/17/2007
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/17/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	07/17/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	F003
Hand Code:	H02
Quantity:	15000 P

Manifest Number:	000189946CEX
EPA ID:	NYD986892412
Date Shipped:	04/11/2007
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/11/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/11/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	F003
Hand Code:	H02
Quantity:	16000 P

Manifest Number:	NJA5038388
EPA ID:	NYD986892412
Date Shipped:	04/22/2004
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/22/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/22/2004
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	05100422
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported
Manifest Number:	NJA5062356
EPA ID:	NYD986892412
Date Shipped:	08/03/2004
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/03/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/03/2004
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	08300425
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported
Manifest Number:	000651454SKS
EPA ID:	NYD986892412
Date Shipped:	12/04/2007
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	12/04/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	12/04/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Manifest Number:	NJA4026918
EPA ID:	NYD986892412
Date Shipped:	12/30/2004
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	NJD071629976
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	12/30/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	12/30/2004
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	01310522
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

E48 **METROPOLITAN STEWART AVE** **NY Spills** **S103274820**
North **METROPOLITAN STEWART AVE** **N/A**
< 1/8 **QUEENS, NY**
0.065 mi.
345 ft. **Site 2 of 5 in cluster E**

Relative: **Lower**

Actual: **11 ft.**

SPILLS:

Name:	METROPOLITAN STEWART AVE
Address:	METROPOLITAN STEWART AVE
City,State,Zip:	QUEENS, NY
Spill Number/Closed Date:	9802640 / 1998-06-02
Facility ID:	9802640
Facility Type:	ER
DER Facility ID:	218254
Site ID:	267906
DEC Region:	2
Spill Cause:	Traffic Accident
Spill Class:	C4
SWIS:	4101
Spill Date:	1998-05-30
Investigator:	CAENGELH
Referred To:	Not reported
Reported to Dept:	1998-05-30
CID:	216
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1998-05-30
Spill Record Last Update:	1998-06-02
Spiller Name:	PASQUALE LOPEZ
Spiller Company:	CABEL TRUCKING

METROPOLITAN STEWART AVE (Continued) **S103274820**

Spiller Address:	KENVILE
Spiller Company:	001
Contact Name:	FIREFIGHTER HACK
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ENGELHARDT 5/30/98 Spoke to NYFD Captain Doherty: FD recovered oil and put 50 gal into 55 gallon drum. put biosolve on street and flushed sewer. Nothing recoverable left in street or on sewer."
Remarks:	"truck hit a tractor trailor causing the above spill whick is now in the sewer system the fd is trying to recover what they can they have a sander enroute and they req a call from rep "

All Materials:

Site ID:	267906
Operable Unit ID:	1063298
Operable Unit:	01
Material ID:	320965
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	80.00
Units:	G
Recovered:	50.00
Oxygenate:	Not reported

D49 **CON EDISON** **NJ MANIFEST** **S120667906**
SSE **179 STEWART AVE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.069 mi.
366 ft. **Site 5 of 7 in cluster D**

Relative:
Higher

Actual:
14 ft.

NJ MANIFEST:

EPA Id:	NYP004738597
Mail Address:	IRVING PL, 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002610788GBF
EPA ID:	NYP004738597
Date Shipped:	2/25/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported

CON EDISON (Continued) **S120667906**

Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

D50 **CON EDISON** **RCRA NonGen / NLR** **1018279063**
SSE **179 STEWART AVE** **FINDS** **NYP004738597**
< 1/8 **BROOKLYN, NY 11237** **ECHO**
0.069 mi.
366 ft. **Site 6 of 7 in cluster D**

Relative: RCRA NonGen / NLR:
Higher

Actual: Date Form Received by Agency:		20150225
14 ft. Handler Name:	CON EDISON	
Handler Address:		179 STEWART AVE
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYP004738597
Contact Name:		THOMAS TEELING
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		212-460-3770
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported

CON EDISON (Continued) **1018279063**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	IRVING PL, 15TH FL NE
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No

CON EDISON (Continued) **1018279063**

Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160502
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2015

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private
Date Became Current:	20150225
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private
Date Became Current:	20150225
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20160205
Handler Name:	CON EDISON - SERVICE BOX 67739
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

CON EDISON (Continued) **1018279063**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150225
Handler Name: CON EDISON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150225
Handler Name: CON EDISON
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 221122
NAICS Description: ELECTRIC POWER DISTRIBUTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110067685598

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

CON EDISON (Continued) **1018279063**

ECHO:
- Envid: 1018279063
- Registry ID: 110067685598
- DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110067685598
- Name: CON EDISON
- Address: 179 STEWART AVE
- City,State,Zip: BROOKLYN, NY 11237

D51 **CON EDISON** **NY MANIFEST** **S117740682**
SSE **179 STEWART AVE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.069 mi.
366 ft. **Site 7 of 7 in cluster D**

Relative:
Higher

Actual:
14 ft.

NY MANIFEST:
- Name: CON EDISON
- Address: 179 STEWART AVE
- City,State,Zip: BROOKLYN, NY 11237
- Country: USA
- EPA ID: NYP004738597
- Facility Status: Not reported
- Location Address 1: 179 STEWART AVE
- Code: BP
- Location Address 2: Not reported
- Total Tanks: Not reported
- Location City: BROOKLYN
- Location State: NY
- Location Zip: 11237
- Location Zip 4: Not reported

NY MANIFEST:
- EPAID: NYP004738597
- Mailing Name: CON EDISON
- Mailing Contact: CON EDISON
- Mailing Address 1: 4 IRVING PL
- Mailing Address 2: 15TH FL
- Mailing City: NEW YORK
- Mailing State: NY
- Mailing Zip: 10003
- Mailing Zip 4: Not reported
- Mailing Country: USA
- Mailing Phone: Not reported

NY MANIFEST:
- Document ID: Not reported
- Manifest Status: Not reported
- seq: Not reported
- Year: 2018
- Trans1 State ID: NJD003812047
- Trans2 State ID: Not reported
- Generator Ship Date: 02/25/2015
- Trans1 Recv Date: 02/25/2015
- Trans2 Recv Date: Not reported
- TSD Site Recv Date: 02/27/2015
- Part A Recv Date: Not reported
- Part B Recv Date: Not reported
- Generator EPA ID: NYP004738597

CON EDISON (Continued) **S117740682**

Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002610788GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	8000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

G52 **PATSON CORP** **RCRA NonGen / NLR** **1011490373**
WSW **85 MEADOW ST** **FINDS** **NYN008019051**
< 1/8 **BROOKLYN, NY 11237** **ECHO**
0.069 mi.
366 ft. **Site 1 of 5 in cluster G**

Relative: RCRA NonGen / NLR:
Lower

Date Form Received by Agency:		20080509
Handler Name:	PATSON CORP	
Handler Address:		85 MEADOW ST
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYN008019051
Contact Name:		RICHARD MULLARE
Contact Address:		MEADOW ST
Contact City,State,Zip:		BROOKLYN, NY 11237
Contact Telephone:		718-497-7272
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified

Actual:
6 ft.

PATSON CORP (Continued) **1011490373**

Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	MEADOW ST
Mailing City,State,Zip:	BROOKLYN, NY 11237
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No

PATSON CORP (Continued) **1011490373**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20080616
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20080509
Handler Name: PATSON CORP	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

PATSON CORP (Continued) **1011490373**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20080508
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R2MD
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:

Registry ID: 110001613120

Click Here:

Environmental Interest/Information System:

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.
AIR SYNTHETIC MINOR
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
RISK AND TECHNOLOGY REVIEW
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when

PATSON CORP (Continued) **1011490373**

complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1011490373
Registry ID:	110001613120
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001613120
Name:	PATSON CORPORATION
Address:	85 MEADOW STREET
City,State,Zip:	BROOKLYN, NY 11206

G53 **209 MORGAN AVE. CORP.** **NY UST** **U004045182**
WSW **85 MEADOW STREET** **N/A**
< 1/8 **BROOKLYN, NY 11206**
0.069 mi.
366 ft. **Site 2 of 5 in cluster G**

Relative: **Lower**

Actual: **6 ft.**

UST:

Name:	209 MORGAN AVE. CORP.
Address:	85 MEADOW STREET
City,State,Zip:	BROOKLYN, NY 11206
Id/Status:	2-609985 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590022.08781
UTM Y:	4507262.61140
Site Type:	Manufacturing (Other than Chemical)/Processing

Affiliation Records:

Site Id:	349533
Affiliation Type:	Facility Owner
Company Name:	MARTIN FRIEDMAN
Contact Type:	PRESIDENT
Contact Name:	MARTIN FRIEDMAN
Address1:	174 OUTLED 65 ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 387-5422
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG

209 MORGAN AVE. CORP. (Continued) **U004045182**

Date Last Modified: 2005-07-20

Site Id: 349533
Affiliation Type: Mail Contact
Company Name: 209 MORGAN AVE CORP.
Contact Type: Not reported
Contact Name: Not reported
Address1: 372 TEN EYK ST
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11206
Country Code: 001
Phone: (718) 497-5444
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 2005-07-20

Site Id: 349533
Affiliation Type: Facility Operator
Company Name: 209 MORGAN AVE. CORP.
Contact Type: Not reported
Contact Name: MARTIN FRIEDMAN
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 497-5444
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 2005-07-20

Site Id: 349533
Affiliation Type: Emergency Contact
Company Name: MARTIN FRIEDMAN
Contact Type: Not reported
Contact Name: MARTIN FRIEDMAN
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 387-5422
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 2005-07-20

Tank Info:

Tank Number: #1
Tank ID: 207283

209 MORGAN AVE. CORP. (Continued) **U004045182**

Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	3000
Install Date:	Not reported
Date Tank Closed:	07/07/2005
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	00
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	KXTANG
Last Modified:	04/14/2017

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
I05 - Overfill - Vent Whistle

G54 **APT BUILDING TANK** **NY LTANKS** **S106972250**
WSW **85 MEADOW STREET** **N/A**
< 1/8 **BROOKLYN, NY**
0.069 mi.
366 ft. **Site 3 of 5 in cluster G**

Relative: **Lower**
Actual: **6 ft.**

LTANKS:

Name:	APT BUILDING TANK
Address:	85 MEADOW STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0504662 / 2005-12-09
Facility ID:	0504662
Site ID:	349596
Spill Date:	2005-07-19
Spill Cause:	Tank Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	D4
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	2005-07-19
CID:	444
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported

APT BUILDING TANK (Continued) **S106972250**

Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2005-07-20
Spill Record Last Update:	2005-12-09
Spiller Name:	MR FRIEDMAN
Spiller Company:	GARAGE
Spiller Address:	84 MEADOW STREET
Spiller County:	001
Spiller Contact:	MR FRIEDMAN
Spiller Phone:	(718) 614-1896
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	296031
DEC Memo:	"Sangesland spoke to Vicky at Island Tank. This is a heating oil tank in the garage area of an apartment building. Island Tank is already doing the dig out and knows to take the end point samples. No Tank Test Failure or Contaminated Soil letter was sent. 09.22.05 SR// Sharif spoke with Mr. Friedman . He informed me Island Tank took care of the problem. I tried to hold Vicky but not able. 12/09/05-Sharif// I rec'd report prepared by Island Tank.The UST was 3000 gallons and was removed from the property as clean scrap metal.Six end point samples were taken from the UST cavity. Approx. 26 yards of contaminated soil was removed from the hole.Soil analytical result came back almost clean with no significant contaminants left at the site.Disposal manifests are provided. NFA action required."
Remarks:	"LINES ON 3000 GALLON TANK ARE ROTTED AND THEY NEED TO REMOVE SOME CONTAMINATED SOIL"

All Materials:

Site ID:	349596
Operable Unit ID:	1107185
Operable Unit:	01
Material ID:	2097080
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

H55 **VARICK AVENUE** **NY SHWS** **S105973022**
SSW **165 VARICK AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 10013**
0.070 mi.
371 ft. **Site 1 of 6 in cluster H**

Relative:
Lower

Actual:
12 ft.

SHWS:

Name:	VARICK AVENUE
Address:	165 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 10013
Program:	HW
Site Code:	55914
Classification:	N

VARICK AVENUE (Continued) **S105973022**

Region:	2
Acres:	3.540
HW Code:	224017
Record Add:	11/18/1999
Record Upd:	04/03/2007
Updated By:	KALEWAND
Site Description:	"This property is located in Brooklyn (Block #2962 - lots 1, 5, & 37), and is owned by Rhino Trust (Albert Realty Co.). The site is a vacant lot, except for two, one-story shed buildings in a state of disrepair. The site has a develop- ment history dating back to the early 1900's; site uses have included an asphalt paving company and a lumber company. As a result of an environmental survey of this site conducted in 1988 and 1989, traces of 4-chloroaniline, pentachlorophenol, butyl-ben zylpthalate; di-N-butylphthalate and flouranthene were found. Metals and total petroleum hydrocarbons were also found in the soils, surface and groundwater. Contamination of soils by metals was found to include: silver, barium, cadmium, chromium , iron, lead and copper. Concentrations of metals in the groundwater exceeded groundwater quality standards for lead and iron. Rhino Trust has carried out a supplemental site assessment under a consent order in the summer of 1992. An interpretation of the analytical results from the previous investigation has been inconclusive due to data gaps in the reports. Rhino Trust performed a Supplemental Site Assessment, and the fieldwork was completed in 1994. The PRP has removed the contaminated soils. Hazardous waste is no longer present and significant threat no longer exists."
Env Problem:	"Contaminated soils have been removed but groundwater contamination evidently due to construction and demolition debris (non-hazardous), still exists."
Health Problem:	""
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	3
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	MULTIPLE OWNERS
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	NY
Owner Country:	Unknown
Own Op:	1
Sub Type:	E
Owner Name:	Not reported
Owner Company:	Rhino Trust
Owner Address:	P.O. BOX 637
Owner Addr2:	Not reported
Owner City,St,Zip:	ASPEN, CO 81612

VARICK AVENUE (Continued) **S105973022**

Owner Country:	United States of America
Own Op:	1
Sub Type:	E
Owner Name:	Not reported
Owner Company:	*** MULTIPLE OWNERS ***
Owner Address:	P.O. BOX 637
Owner Addr2:	Not reported
Owner City,St,Zip:	ASPEN, CO 81612
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

H56 **VARICK AVENUE** **NY HSWDS** **S105212104**
SSW **165 VARICK AVENUE** **N/A**
< 1/8 **BROOKLYN, NY, NY 11237**
0.070 mi.
371 ft. **Site 2 of 6 in cluster H**

Relative: **Lower**

Actual: **12 ft.**

HSWDS:

Facility ID:	HS2043
Region:	2
Facility Status:	None
Owner Type:	Puplic
Owner:	Rhino Trust
Owner Address:	P.O. Box 637
Owner Phone:	(303)920-9307
Operator Type:	Not reported
Operator:	Not reported
Operator:	Not reported
Operator Phone:	Not reported
EPA ID:	None
Registry:	D
Registry Site ID:	224017
RCRA Permitted:	Unknown
Site Code:	Construction and Demolition Debris Site
Owner City State:	Aspen, CO 81612
Operator City State:	Not reported
Quadrange:	Brooklyn, NY
Latitude:	40 43 00
Longitude:	73 56 00
Acres:	3.54
Operator Date:	Unknown
Close Date:	Unknown
Completed:	PSA/IRM
Active:	Unknown
PCB's Disposed:	No
Pesticides Disposed:	No
Metals Disposed:	Yes
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	No

VARICK AVENUE (Continued) **S105212104**

Semi Volatile Organic Compounds Disposed:	Yes
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	Groundwater
Analytical Info Exists for Surface:	Surface Water
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Surface Soil
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	EPTox
Analytical Info Exists for TCLP:	TCLP
Threat to Environment/Public Health:	Environmental/Public
Surface Water Contamination:	Unknown
Surface Water Body Class:	SD
Groundwater Contamination:	Yes
Groundwater Classification:	Sole
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	No
Any Known Fish or Wildlife:	No
Hazardous Exposure:	No
Site Has Controlled Acess:	Yes
Ambient Air Contamination:	No
Direct Contact:	No
EPA Hazardous Ranking System Score:	1.3
Inventory:	Not reported
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	Not reported
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

E57 **1201 METROPOLITAN AVE** **NY Spills** **S106722285**
NNW **1201 METROPOLITAN AVE** **N/A**
< 1/8 **QUEENS, NY**
0.070 mi.
372 ft. **Site 3 of 5 in cluster E**

Relative:
Lower

Actual:
10 ft.

SPILLS:

Name:	1201 METROPOLITAN AVE
Address:	1201 METROPOLITAN AVE
City,State,Zip:	QUEENS, NY
Spill Number/Closed Date:	0407964 / 2006-01-26
Facility ID:	0407964
Facility Type:	ER
DER Facility ID:	267718
Site ID:	332541
DEC Region:	2
Spill Cause:	Other
Spill Class:	D4
SWIS:	4101
Spill Date:	2004-10-18
Investigator:	TPFESTA
Referred To:	Not reported
Reported to Dept:	2004-10-18
CID:	403
Water Affected:	Not reported
Spill Source:	Passenger Vehicle
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2004-10-18
Spill Record Last Update:	2006-01-31
Spiller Name:	LT.SMITHWICK
Spiller Company:	Not reported
Spiller Address:	1201 METROPOLITAN AVE
Spiller Company:	001
Contact Name:	LT.SMITHWICK
DEC Memo:	"1/26/05 - Closed as per 2006 spill closure initiative program guidance."
Remarks:	"ruptured fuel tank caused about 12 gallons to spill out. they are leaving the over pact drum that they pumped the fuel in for pick-up."

All Materials:

Site ID:	332541
Operable Unit ID:	1094774
Operable Unit:	01
Material ID:	574905
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	12.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

C58 **JJ KANG ENTERPRISE, INC.** **NY UST** **U003065891**
NW **1188 METROPOLITAN AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.071 mi.
377 ft. **Site 18 of 20 in cluster C**

Relative:
Lower

Actual:
9 ft.

UST:

Name:	JJ KANG ENTERPRISE, INC.
Address:	1188 METROPOLITAN AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Id/Status:	2-602411 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	08/17/2025
UTM X:	590428.35289
UTM Y:	4507574.49366
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	24368
Affiliation Type:	Mail Contact
Company Name:	JJ KANG ENTERPRISE, INC.
Contact Type:	Not reported
Contact Name:	JERNAIL SINGH
Address1:	1188 METROPOLITAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 366-0949
EMail:	GENERALMOTOR53@GMAIL.COM
Fax Number:	Not reported
Modified By:	JAAVERSA
Date Last Modified:	2020-09-08

Site Id:	24368
Affiliation Type:	Emergency Contact
Company Name:	DIECOR REALTY CORP.
Contact Type:	Not reported
Contact Name:	JERNAIL SINGH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 217-4991
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2019-03-05

Site Id:	24368
Affiliation Type:	Facility Owner
Company Name:	DIECOR REALTY CORP.
Contact Type:	PRESIDENT
Contact Name:	JERNAIL SINGH
Address1:	1194 METROPOLITAN AVENUE

JJ KANG ENTERPRISE, INC. (Continued) **U003065891**

Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 628-5000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2019-03-01

Site Id:	24368
Affiliation Type:	Facility Operator
Company Name:	JJ KANG ENTERPRISE, INC.
Contact Type:	Not reported
Contact Name:	JERNAIL SINGH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 366-0949
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2019-03-01

Tank Info:

Tank Number:	01
Tank ID:	50004
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	05/01/1955
Date Tank Closed:	02/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	21
Date Test:	03/26/2001
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	JMKRIMGO
Last Modified:	04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None

JJ KANG ENTERPRISE, INC. (Continued) **U003065891**

B01 - Tank External Protection - Painted/Asphalt Coating
J01 - Dispenser - Pressurized Dispenser
F00 - Pipe External Protection - None

Tank Number:	019
Tank ID:	232527
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	4000
Install Date:	01/01/2008
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DAFRANCI
Last Modified:	10/22/2019

Equipment Records:

L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
G04 - Tank Secondary Containment - Double-Walled (Underground)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
K01 - Spill Prevention - Catch Basin
I03 - Overfill - Automatic Shut-Off
E04 - Piping Secondary Containment - Double walled UG
J01 - Dispenser - Pressurized Dispenser

Tank Number:	02
Tank ID:	50005
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	05/01/1955
Date Tank Closed:	02/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21
Date Test:	03/26/2001
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	JMKRIMGO

JJ KANG ENTERPRISE, INC. (Continued) **U003065891**

Last Modified: 04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
J01 - Dispenser - Pressurized Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 020
Tank ID: 232528
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 01/01/2008
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: DAFRANCI
Last Modified: 10/22/2019

Equipment Records:

F04 - Pipe External Protection - Fiberglass
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
G04 - Tank Secondary Containment - Double-Walled (Underground)
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
J01 - Dispenser - Pressurized Dispenser

Tank Number: 021
Tank ID: 232529
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 01/01/2008
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground

JJ KANG ENTERPRISE, INC. (Continued) **U003065891**

Tank Type: Equivalent technology
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: DAFRANCI
Last Modified: 10/22/2019

Equipment Records:

L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J01 - Dispenser - Pressurized Dispenser
E04 - Piping Secondary Containment - Double walled UG

Tank Number: 022
Tank ID: 232530
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 01/01/2008
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: DAFRANCI
Last Modified: 10/22/2019

Equipment Records:

C02 - Pipe Location - Underground/On-ground
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
G04 - Tank Secondary Containment - Double-Walled (Underground)
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
E04 - Piping Secondary Containment - Double walled UG

JJ KANG ENTERPRISE, INC. (Continued) **U003065891**

J01 - Dispenser - Pressurized Dispenser

Tank Number: 023
Tank ID: 232531
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 01/01/2008
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: DAFRANCI
Last Modified: 10/22/2019

Equipment Records:

L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
C02 - Pipe Location - Underground/On-ground
G04 - Tank Secondary Containment - Double-Walled (Underground)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
A00 - Tank Internal Protection - None
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J01 - Dispenser - Pressurized Dispenser
E04 - Piping Secondary Containment - Double walled UG

Tank Number: 03
Tank ID: 50006
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1955
Date Tank Closed: 02/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 21
Date Test: 03/26/2001
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: JMKRIMGO
Last Modified: 04/14/2017

JJ KANG ENTERPRISE, INC. (Continued) **U003065891**

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
I00 - Overfill - None
J01 - Dispenser - Pressurized Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number:	04
Tank ID:	50007
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	05/01/1955
Date Tank Closed:	02/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21
Date Test:	03/26/2001
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	JMKRIMGO
Last Modified:	04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J01 - Dispenser - Pressurized Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number:	05
Tank ID:	50008
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	05/01/1955
Date Tank Closed:	02/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

JJ KANG ENTERPRISE, INC. (Continued) **U003065891**

Tightness Test Method: 21
Date Test: 03/26/2001
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: JMKRIMGO
Last Modified: 04/14/2017

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
I00 - Overfill - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number: 06
Tank ID: 50009
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1955
Date Tank Closed: 02/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 21
Date Test: 03/26/2001
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: JMKRIMGO
Last Modified: 04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 07
Tank ID: 50010
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1955
Date Tank Closed: 02/01/1999

JJ KANG ENTERPRISE, INC. (Continued) **U003065891**

Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 21
Date Test: 03/26/2001
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: JMKRIMGO
Last Modified: 04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number: 08
Tank ID: 50011
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1955
Date Tank Closed: 02/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 21
Date Test: 03/26/2001
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: JMKRIMGO
Last Modified: 04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 09

JJ KANG ENTERPRISE, INC. (Continued) **U003065891**

Tank ID: 50012
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1955
Date Tank Closed: 02/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 21
Date Test: 03/26/2001
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: JMKRIMGO
Last Modified: 04/14/2017

Equipment Records:
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 10
Tank ID: 50013
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/05/1955
Date Tank Closed: 02/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 21
Date Test: 03/26/2001
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: JMKRIMGO
Last Modified: 04/14/2017

Equipment Records:
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None

JJ KANG ENTERPRISE, INC. (Continued) **U003065891**

I00 - Overfill - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number: 11
Tank ID: 50014
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 2000
Install Date: 08/01/1991
Date Tank Closed: 02/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: JMKRIMGO
Last Modified: 04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G99 - Tank Secondary Containment - Other
H00 - Tank Leak Detection - None
I00 - Overfill - None
A01 - Tank Internal Protection - Epoxy Liner
B04 - Tank External Protection - Fiberglass
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J01 - Dispenser - Pressurized Dispenser

Tank Number: 12
Tank ID: 50015
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 1080
Install Date: 08/01/1991
Date Tank Closed: 02/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0003
Common Name of Substance: #6 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: JMKRIMGO
Last Modified: 04/14/2017

Equipment Records:

JJ KANG ENTERPRISE, INC. (Continued) **U003065891**

J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G99 - Tank Secondary Containment - Other
I01 - Overfill - Float Vent Valve
H00 - Tank Leak Detection - None
B04 - Tank External Protection - Fiberglass
D02 - Pipe Type - Galvanized Steel
A99 - Tank Internal Protection - Other
F99 - Pipe External Protection - Other

Tank Number: 13
Tank ID: 50016
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 1080
Install Date: 08/01/1991
Date Tank Closed: 02/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0003
Common Name of Substance: #6 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: JMKRIMGO
Last Modified: 04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G99 - Tank Secondary Containment - Other
I01 - Overfill - Float Vent Valve
H00 - Tank Leak Detection - None
B04 - Tank External Protection - Fiberglass
D02 - Pipe Type - Galvanized Steel
A99 - Tank Internal Protection - Other
F99 - Pipe External Protection - Other

Tank Number: 14
Tank ID: 50017
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 4000
Install Date: 03/01/1999
Date Tank Closed: 02/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported

JJ KANG ENTERPRISE, INC. (Continued) **U003065891**

Next Test Date: Not reported
Pipe Model: Not reported
Modified By: JMKRIMGO
Last Modified: 04/14/2017

Equipment Records:

F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G04 - Tank Secondary Containment - Double-Walled (Underground)
I01 - Overfill - Float Vent Valve
H00 - Tank Leak Detection - None
B04 - Tank External Protection - Fiberglass
D02 - Pipe Type - Galvanized Steel
A99 - Tank Internal Protection - Other

Tank Number: 15
Tank ID: 50018
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 08/01/1991
Date Tank Closed: 12/12/2014
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: 21
Date Test: 03/25/2001
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: DAFRANCI
Last Modified: 02/06/2018

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
L09 - Piping Leak Detection - Exempt Suction Piping
H00 - Tank Leak Detection - None
I00 - Overfill - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

C59 **BUY RITE GARAGE INC** **RCRA NonGen / NLR** **1001818359**
NW **1188 METROPOLITAN AVE** **ICIS** **NYU005001680**
< 1/8 **BROOKLYN, NY 11237** **US AIRS**
0.071 mi.
377 ft. **Site 19 of 20 in cluster C**

Relative: **Lower**
Actual: **9 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20070101
Handler Name:	BUY RITE GARAGE INC	
Handler Address:		1188 METROPOLITAN AVE
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYU005001680
Contact Name:		Not reported
Contact Address:		METROPOLITAN AVE
Contact City,State,Zip:		BROOKLYN, NY 11237
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		METROPOLITAN AVE
Mailing City,State,Zip:		BROOKLYN, NY 11237
Owner Name:		NON REGULATED
Owner Type:		Private
Operator Name:		NON REGULATED
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

BUY RITE GARAGE INC (Continued) **1001818359**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NON REGULATED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, NY 99999
Owner/Operator Telephone:	718-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NON REGULATED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, NY 99999
Owner/Operator Telephone:	718-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

BUY RITE GARAGE INC (Continued) **1001818359**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NON REGULATED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, NY 99999
Owner/Operator Telephone:	718-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990928
Handler Name: BUY RITE GARAGE INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060101
Handler Name: BUY RITE GARAGE INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101
Handler Name: BUY RITE GARAGE INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

BUY RITE GARAGE INC (Continued) **1001818359**

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19990910
Evaluation Responsible Agency: EPA
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R2MML
Evaluation Responsible Sub-Organization: RCB
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

ICIS:
Enforcement Action ID: 02-2000-1062

BUY RITE GARAGE INC (Continued) **1001818359**

FRS ID: 110009488465
Action Name: BUYRITE UNITED FUEL & OIL COMPANY
Facility Name: BUY RITE GARAGE INC
Facility Address: 1188 METROPOLITAN AVE
BROOKLYN, NY 11237
Enforcement Action Type: CAA 113A Admin Compliance Order (Non-Penalty)
Facility County: KINGS
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 113A
Facility SIC Code: 4932
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 40.714257
Longitude in Decimal Degrees: -73.929321
Permit Type Desc: Not reported
Program System Acronym: 3793
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 02-1999-0017
FRS ID: 110009488465
Action Name: BUY-RITE GARAGE INC
Facility Name: BUY RITE GARAGE INC
Facility Address: 1188 METROPOLITAN AVE
BROOKLYN, NY 11237
Enforcement Action Type: Civil Judicial Action
Facility County: KINGS
Program System Acronym: ICIS
Enforcement Action Forum Desc: Judicial
EA Type Code: CIV
Facility SIC Code: 4932
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 40.714257
Longitude in Decimal Degrees: -73.929321
Permit Type Desc: Not reported
Program System Acronym: 3793
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Facility Name: BUY RITE GARAGE INC
Address: 1188 METROPOLITAN AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 4932

Facility Name: BUY RITE GARAGE INC
Address: 1188 METROPOLITAN AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 4932

Facility Name: BUY RITE GARAGE INC
Address: 1188 METROPOLITAN AVE
Tribal Indicator: N

BUY RITE GARAGE INC (Continued) **1001818359**

Fed Facility: No
NAIC Code: Not reported
SIC Code: 4932

Facility Name: BUY RITE GARAGE INC
Address: 1188 METROPOLITAN AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 4932

US AIRS MINOR:
Envid: 1001818359
Region Code: 02
Programmatic ID: AIR 020000003604700500
Facility Registry ID: 110009488465
D and B Number: Not reported
Primary SIC Code: 4932
NAICS Code: 221210
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 02
Programmatic ID: AIR 020000003604700500
Facility Registry ID: 110009488465
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-03-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

C60 **METRO GARAGE** **NY AST** **S108982334**
NW **1188 METROPOLITAN AVE** **NY Spills** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.071 mi.
377 ft. **Site 20 of 20 in cluster C**

Relative: **Lower**
Actual: **9 ft.**

AST:
Name: JJ KANG ENTERPRISE, INC.
Address: 1188 METROPOLITAN AVENUE
City,State,Zip: BROOKLYN, NY 11237
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-602411
Program Type: PBS
UTM X: 590428.35289
UTM Y: 4507574.49366
Expiration Date: 08/17/2025
Site Type: Retail Gasoline Sales

METRO GARAGE (Continued) **S108982334**

Affiliation Records:

Site Id:	24368
Affiliation Type:	Mail Contact
Company Name:	JJ KANG ENTERPRISE, INC.
Contact Type:	Not reported
Contact Name:	JERNAIL SINGH
Address1:	1188 METROPOLITAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 366-0949
EMail:	GENERALMOTOR53@GMAIL.COM
Fax Number:	Not reported
Modified By:	JAAVERSA
Date Last Modified:	2020-09-08

Site Id:	24368
Affiliation Type:	Emergency Contact
Company Name:	DIECOR REALTY CORP.
Contact Type:	Not reported
Contact Name:	JERNAIL SINGH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 217-4991
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2019-03-05

Site Id:	24368
Affiliation Type:	Facility Owner
Company Name:	DIECOR REALTY CORP.
Contact Type:	PRESIDENT
Contact Name:	JERNAIL SINGH
Address1:	1194 METROPOLITAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 628-5000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2019-03-01

Site Id:	24368
Affiliation Type:	Facility Operator
Company Name:	JJ KANG ENTERPRISE, INC.
Contact Type:	Not reported
Contact Name:	JERNAIL SINGH

METRO GARAGE (Continued) **S108982334**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 366-0949
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2019-03-01

Tank Info:

Tank Number:	024
Tank Id:	281852

Equipment Records:

G12 - Tank Secondary Containment - Double-Walled (AG only)
I05 - Overfill - Vent Whistle
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None
J06 - Dispenser - Tank Mounted Dispenser
B02 - Tank External Protection - Original Sacrificial Anode
C00 - Pipe Location - No Piping
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
H05 - Tank Leak Detection - In-Tank System (ATG)

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Galvanized Steel Alloy
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	12/01/2018
Capacity Gallons:	275
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DAFRANCI
Last Modified:	10/22/2019
Material Name:	diesel

Tank Number:	025
Tank Id:	281853

Equipment Records:

G12 - Tank Secondary Containment - Double-Walled (AG only)
I05 - Overfill - Vent Whistle
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
B02 - Tank External Protection - Original Sacrificial Anode
C00 - Pipe Location - No Piping

METRO GARAGE (Continued) **S108982334**

F00 - Pipe External Protection - None
J06 - Dispenser - Tank Mounted Dispenser
D00 - Pipe Type - No Piping
L00 - Piping Leak Detection - None
H05 - Tank Leak Detection - In-Tank System (ATG)

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Galvanized Steel Alloy
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	12/01/2018
Capacity Gallons:	275
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DAFRANCI
Last Modified:	10/22/2019
Material Name:	diesel
Tank Number:	026
Tank Id:	281854

Equipment Records:

G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
E00 - Piping Secondary Containment - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
J06 - Dispenser - Tank Mounted Dispenser
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	12/01/2018
Capacity Gallons:	275
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DAFRANCI
Last Modified:	10/22/2019
Material Name:	diesel
Tank Number:	027
Tank Id:	281855

METRO GARAGE (Continued) **S108982334**

Equipment Records:

G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
K00 - Spill Prevention - None
B01 - Tank External Protection - Painted/Asphalt Coating
F01 - Pipe External Protection - Painted/Asphalt Coating
A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
J06 - Dispenser - Tank Mounted Dispenser
D02 - Pipe Type - Galvanized Steel
L00 - Piping Leak Detection - None
C01 - Pipe Location - Aboveground

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	12/01/2018
Capacity Gallons:	275
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DAFRANCI
Last Modified:	10/22/2019
Material Name:	diesel

SPILLS:

Name:	PREMIUM OIL
Address:	1188 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0011310 / 2003-09-15
Facility ID:	0011310
Facility Type:	ER
DER Facility ID:	276844
Site ID:	173941
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	2001-01-17
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2001-01-17
CID:	270
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0

METRO GARAGE (Continued) **S108982334**

Date Entered In Computer:	2001-01-17
Spill Record Last Update:	2003-09-15
Spiller Name:	CALLER
Spiller Company:	PREMIUM OIL
Spiller Address:	1188 METROPOLITIAN AV
Spiller Company:	001
Contact Name:	CALLER
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was AUSTIN 9/15/03 - AUSTIN - STREET SPILL - CLOSED IN DATABASE - ORIG. ASSIGNED TO ROMMEL - END"
Remarks:	"pipe broke on truck and caller thinks that some may have gotten into sewer. clean up in progress"

All Materials:

Site ID:	173941
Operable Unit ID:	832708
Operable Unit:	01
Material ID:	541630
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	METRO GARAGE
Address:	1188 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0206038 / 2004-03-16
Facility ID:	0206038
Facility Type:	ER
DER Facility ID:	276844
Site ID:	173942
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	2401
Spill Date:	2002-09-10
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	2002-09-11
CID:	270
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	2002-09-11
Spill Record Last Update:	2004-03-16
Spiller Name:	CALLER
Spiller Company:	METRO GARAGE

METRO GARAGE (Continued) **S108982334**

Spiller Address:	1188 METROPOLITIAN AV
Spiller Company:	001
Contact Name:	CALLER
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 3/16/04-Vought-This spill closed and referred to spill #0302832 at same location."
Remarks:	"piping failure on tanks at location. "

All Materials:

Site ID:	173942
Operable Unit ID:	858526
Operable Unit:	01
Material ID:	516652
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	IN ROADWAY
Address:	1188 METROPOLITAN
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0711153 / 2008-01-22
Facility ID:	0711153
Facility Type:	ER
DER Facility ID:	342171
Site ID:	392573
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	2008-01-22
Investigator:	rvketani
Referred To:	Not reported
Reported to Dept:	2008-01-22
CID:	408
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-01-22
Spill Record Last Update:	2011-07-22
Spiller Name:	MITCHEL
Spiller Company:	RIGHT WAY FUEL OIL
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	FIREMAN SARNELL
DEC Memo:	"1/22/08 - Raphael Ketani. I called Fireman Scott Sarnell of Hazmat 1 (347) 203-6886. He said that a tanker truck had leaked #2 oil onto

METRO GARAGE (Continued) **S108982334**

the street at Metropolitan Avenue and Varick Street. The surface spill is about 100 feet long and covers a 4 lane road. So the surface spill is about 50 gals. He said there is another 90 gals. in the sewer. Fireman Sarnell said that Sanitation is sending a sander. I contacted DOS and DEP about the spill. Later, I received an updated spill report stating that the NYFD units were containing the spill. Fireman Sarnell also stated in the revised report that Right Way Fuel Oil (718) 574-4004 had hired Trade Winds to do the cleanup. As the NYFD is containing the street spill, Trade Winds is coming to do the cleanup, and the DEP and DOS have been notified, I am closing the spill case. 1/23/08 - Raphael Ketani. I contacted Right Way and spoke to Mitchel. He said they were welding the pipe that had leaked on the truck. He said that Trade Winds had worked into the night yesterday and they will finish the cleanup today. He said they had pumped out the sewer."

Remarks: "50 GALLONS ON GROUND WITH AN UNDETERMINED AMOUNT IN THE SEWER; IN ROUTE TO SCENE AND REPOSONSIBLE PARTY ON SITE; UNITS ON SCENE ARE CONTAINING THE MATERIAL AND THE RESPONSIBLE PARTY WILL BE HANDLING THE CLEAN UP;"

All Materials:

Site ID:	392573
Operable Unit ID:	1149565
Operable Unit:	01
Material ID:	2140096
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	200.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	392573
Operable Unit ID:	1149565
Operable Unit:	01
Material ID:	2140094
Material Code:	0003A
Material Name:	#6 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	40.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	METRO GARAGE
Address:	1188 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11237
Spill Number/Closed Date:	0302832 / 2012-01-18
Facility ID:	0302832
Facility Type:	ER
DER Facility ID:	396848
Site ID:	99222
DEC Region:	2
Spill Cause:	Other

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Spill Class:	C4
SWIS:	2401
Spill Date:	2003-06-17
Investigator:	RVKETANI
Referred To:	Not reported
Reported to Dept:	2003-06-17
CID:	216
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2003-06-17
Spill Record Last Update:	2013-06-14
Spiller Name:	DENNIS FIRPO
Spiller Company:	METRO GARAGE
Spiller Address:	1188 METROPOLITAN AVE
Spiller Company:	999
Contact Name:	CHARLES SCHMIDGALL
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL Sangesland DDO Charles Schmidgall of Aggressive Environmental 631-224-1680 Gas Station which was never registered is now under an EPA court order to pull tanks. Of 10 - 550's on site, 7 were removed, 3 are under the building and are being abandoned in place. 4 other tanks are also probably being pulled: Two 1080 gal, One 2000 gal, One 4000 gal. The owner would like to get two of these tanks approved for heating oil storage. Mr. Schmidgall says the excavation is heavily contaminated. He is trying to dig out as much contaminated soil as possible. Sangesland directed him to do a delineation and a remediation plan. Contaminated soil letter was sent to the owner: Dennis Firpo 1188 Metropolitan Ave. Brooklyn, NY 11237 10/20/03 TJD cross reference spill #0206511. 12/9/03 TJD Spill reassigned Demeo greater than greater than greater than Rommel. 3/16/04-Vought-See also closed spill #0206038 at same location. PBS 2-602411 5/18/2006 - Mike - Contacted Dennis Firpo who is aware that he needs to deal with soil problem. Also spoke with Russel Construction (718-909-0148) who is doing the work with Agressive Environmental. Firpo still has fines he has to pay to the EPA. Work along with soil testing and removal of if contamination, is going to be performed within the next eight weeks by Russel Construction once the fines are paid. Gave the spill number to Russel Construction so they can report back once the work is done at the site. 10/29/10 - Austin - Reassigned from Scibelli in Albany to Ketani in Region 2 for following up and closing - end 11/9/10 - Raphael Ketani. The spill was called in on 6/17/03. The spill involved the discovery of contaminated soil while removing the tanks. The site is block and lot 2945 and 8. According to the deed dated 12/23/93 in ACRIS, the owner is Diecor Realty Corp., 1176 Metropolitan Avenue, Brklyn, 11237. The NYC MAP DoITT database shows the site address as including 228 and 230 Varick Avenue. The property includes an L shaped building along the southern part of the combined property. The PBS is #2-602411. There were 23 tanks. The first 14 were closed and removed on 2/1/99. Tank #15 is a 550 gal. UST with #2 oil. Tanks #16 to #23 are each 4,000 gals. and contain either

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gasoline or diesel fuel. The owner is listed as Die Cor Realty Corp., 1194 Metropolitan Avenue, Brklyn. Dennis Firpo is the contact at (718) 628-5000. Mail goes to Mr. Firpo (718) 381-5050 at 1188 Metropolitan Avenue. There is no paper file. There is only a CSL in the E-docs. There are 4 other spill cases for 1188 Metropolitan Avenue. These are closed cases: 0011310; 0206038 (referred to this case); 0206511 (referred to this case); 0711153. In general, the cases involved spills of oil onto the ground and into the sewers, and contaminated soil. I tried to contact Mr. Firpo, the owner, at (718) 381-5050. I reached his secretary. She said that he wasn't in yet, but that she will give him my message. I asked her whether the addresses 1176 and 1194 were part of the same company. She said that she didn't think they were. I asked her whether (718) 628-5000 was also Mr. Firpo's number. She said that I could call this number, too. Mr. Firpo called me back. He said that Russel Construction (718) 909-0148 had done all of the tank pulling and cleaning. He said that he wasn't sure whether he had the cleanup report, but he will look for it. I told him that if he doesn't have the report and Russel doesn't have the report, then a new investigation will need to take place. I asked him what the correct name of the company was. Mr. Firpo said it's called Metro Garage. I tried to contact Russel Construction and request a copy of the cleanup report, but I could only leave a phone message for James. 11/15/10 - Raphael Ketani. Mike Gimelfarb of GE Consulting (718) 997-1282/ cell (917) 868-4713/e-mail gimelfarb.m@att.net called regarding the site. He said that he was the consultant on the job. He thought that all of the reports had been sent to the DEC. I told him that we had nothing. He said that he will look into the matter. Later, I spoke to James. He said that the phone number I had called was his number, not that of Russel Construction. He had no forwarding information regarding Russel Construction. Next, I tried to contact Mr. Firpo. However, again, I reached one of his secretaries. I left a message that I could not get the cleanup report from Russel Construction and that he was responsible for either providing the report or doing another investigation. Mr. Firpo returned my call. He said that he contacted his architect, Mr. Gimelfarb, and Russel Construction. He said that they, as well as he, are looking for the cleanup report. 12/14/10 - Raphael Ketani. Rich Spadalik of ARCO (631) 586-5900 called to request information regarding the spill. He wanted to know who were the parties involved in the cleanup of the site. I gave him the various names. Mr. Spadalik said that Russel Construction went out of business. He tried to contact them (as they owed him money), but he had no success and couldn't find them. He said that he will look for any documents that he has. 2/18/11 - Raphael Ketani. As there has been no response in some time from either Mr. Firpo or Mr. Gimelfarb, and as I haven't received the remediation report, I sent a followup letter to Mr. Firpo. I set a deadline of March 18, 2011 for the remediation report to be submitted or for another soil investigation to take place. 3/3/11 - Raphael Ketani. Mr. Gimelfarb [(718) 997-1282/ cell (917) 868-4713/e-mail gimelfarb.m@att.net] called me today. He wanted to know what Mr. Firpo needed to resolve the spill case. I told him that either he should send me the complete remediation report for the work that was performed previously or he should start a new investigation. Mr. Gimelfarb stated that Russel Construction did the work. However, they were out of business and so the remediation report could not be obtained. I told Mr. Gimelfarb that, in such a case, a new investigation will have to be performed.

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I told him that Mr. Firpo had until March 18 to send the DEC a work plan for the new investigation. Mr. Gimelfarb said that he understood. Later, Sandy of Volumetric Techniques (VTEQE) (631) 472-4848 called. He wanted to know what the site was about and what the DEC was asking to be done. I told him that the DEC was requiring a full soil and groundwater contamination delineation and groundwater flow determination. He said that he will submit a proposal to Mr. Firpo. He said to contact him in 3 weeks if DEC doesn't hear back from him. 3/14/11 - Raphael Ketani. I spoke to Ariel Czemerinski cell (516) 987-1662. He wanted to know what type of work was required at the site. I told him that the soil and groundwater contamination will need to be delineated and the groundwater flow direction will need to be determined. 3/18/11 - Raphael Ketani. As the work plan had not been submitted by today, the deadline that was indicated in the followup letter, I sent a STIP package to Mr. Firpo. I set a deadline for submission of the signed STIP of April 15. 3/23/11 - Raphael Ketani. The green return card was received with a squiggle as someone's signature in the signature box. Today, I received the soil and groundwater delineation work plan from Volumetric Techniques (VTEQE), Ltd. dated 3/22/11. I began my reivew. 3/24/11 - Raphael Ketani. Jared Bretas (212) 788-3220 of the Mayor's Office of Environmental Remediation called. He said that there is a tax lene on Mr. Firpo's property. The Mayor's Office is trying to estimate how much the property is worth in preparation for an auction. I read some of the case notes to Mr. Bretas. He thanked me and the call ended. 3/28/11 - Raphael Ketani. I finished my review of the VTEQE work plan. They proposed 5 boring locations which they estimated to be on the downgradient side of 3 abandoned tanks, 5 active tanks and 3 pump islands. They will collect the most contaminated soil sample, the lowest dry soil sample and a groundwater sample from each boring. As this is an initial investigation, I found the plan to be acceptable. I called up Sander Sternig, Director (631) 472-4848, and told him that the plan was acceptable and to proceed as soon as possible. 4/15/11 - Raphael Ketani. The investigation report was due today. I tried to contact Mr. Sternig (631) 472-4848, but could only leave a message. The message stated that the report was due today. I spoke to Mr. Firpo (718) 381-5050. I asked him why the STIP wasn't sent in. He said that he had given Mr. Gimelfarb all of his paperwork. I told Mr. Firpo that he needed to send the signed STIP to the DEC and today was the due date. I added that he was risking receiving fines and penalties by not sending in the STIP on time. Mr. Firpo said that he will contact Mr. Gimelfarb and try to find out why the STIP wasn't sent in. I asked Mr. Firpo who he had retained as a contractor. He said that it was VTEQE. I told him that the DEC had approved the work plan some time ago and we are now waiting for the investigation report. Mr. Firpo said that he will get back to me. Later, Mr. Firpo called me and said that he had the STIP. He said that he will FAX the signed STIP and send the original by regular mail. I received the FAXed version of the STIP a little while later. 4/16/11 - Raphael Ketani. Mr. Sternig (Sandy) (631) 472-4848/cell (631) 514-1094 called me today, saturday, and left a message. He said that the investigation work was conducted on 4/8/11. There was contamination upgradient. End point samples were taken. The samples have been sent to the lab. 4/18/11 - Raphael Ketani. Today I received the signed STIP with the original signature which had arrived by regular mail. I walked it up to our legal division with a cover memo to our director, Suzanne Matei. 4/21/11 - Raphael Ketani. I received the STIP package

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with the approval signature of Suzanne Matei, Director of Region 2. I sent the approved STIP to Mr. Firpo. 5/23/11 - Raphael Ketani. I spoke to Mr. Sternig (Sandy) (631) 472-4848/cell (631) 514-1094. He said that he received the analytical results. There is gasoline contamination both upgradient and downgradient. The concentrations of the different analytes are greater upgradient. The upgradient sample was taken at the edge of the sidewalk where there is another property (a large warehouse that fronts on Metropolitan and Varick) that has a gas UST, according to Mr. Sternig. There is also a diesel pump in this building. He added that one has to walk down the block and look inside and I would see an old car over the UST and the diesel pump. Mr. Sternig said that he will not submit the investigation report as Mr. Firpo owes him lots of money. I tried to contact Mr. Firpo (718) 381-5050, but I could only leave a message that the DEC needed to receive the investigation report. 5/24/11 - Raphael Ketani. I made an unannounced site visit. Metro Garage is a SUNOCO station. They service cars and pump gas. The site is at the corner of Varick Avenue and Metropolitan Avenue. I saw one round mark in the sidewalk in front of the site which was probably from a soil boring. Across Varick Avenue there was what looked like a warehouse. I saw a fill port and vent pipe for the warehouse, but nothing else. 5/25/11 - Raphael Ketani. I tried to contact Mr. Firpo, but could only leave a message. Later, I contacted Mr. Sternig and asked him to include a page in the investigation report that he will submit showing a schedule for the additional work that must take place and for sending in reports. He said that he will. 5/26/11 - Raphael Ketani. Mr. Firpo (718) 381-5050/cell (917) 603-0377 tried to contact me yesterday after work, but I wasn't in. I tried to return his call today, but could only leave a message. Mr. Firpo returned my call. I told him that the DEC hadn't received the investigation report. He said that he thought Mr. Sternig was going to send it when he talked to him weeks ago. I told him that Mr. Sternig was holding the report until he receives more money. Mr. Firpo said that he will give Mr. Sternig enough money so that he releases the report. He said that I should get the report next week. I told Mr. Firpo that I will keep an eye out for it. 6/16/11 - Raphael Ketani. I received the June 7, 2011 VTEQE soil and groundwater delineation report yesterday. Groundwater was found to be at about 8 feet below grade. It is believed to be tidal as Maspeth Creek is one block to the north and one block to the west. The soil results were almost entirely non-detect for the first three samples and below CP-51 standards for #4 and #5 (except for 1,2,4-trimethylbenzene which was a little elevated). SVOCs were almost entirely non-detect or below standards. For the groundwater, only the sample from #5 had exceedences that were slightly elevated. There were six analytes and the highest concentration was 277 ppb for 1,2,4-trimethylbenzene in the sample from #5. Well installation is supposed to take place during mid-July. Sampling is supposed to take place during mid-August. A RAP will be submitted in mid-September. I spoke to Mr. Sternig (Sandy) (631) 472-4848/cell (631) 514-1094 about the results and data in the report. I asked him where the active diesel tank was. He said that it is under the sidewalk near boring #5. Mr. Sternig added that the diesel pump is here, too. He said that it didn't make sense to install another boring between locations #4 and #5 because the utilities below the sidewalk prevented him from putting another boring in a middle location. He could have installed another boring near the edge of the building, but then he would have been next to one of the borings. I told Mr. Sternig that installing

METRO GARAGE (Continued) **S108982334**

just the two borings sounded fine. I also told him that the only issue I saw was the groundwater contamination at #5. I added that he should install two permanent wells, one at #5 and one further south to see whether the contamination is from off site. I stated that he should try a couple of groundwater evacuations to see whether the water will clean up. Mr. Sternig said that he will approach Mr. Firpo with the idea of installing the wells and doing the groundwater recovery and sampling. However, Mr. Firpo still owes him lots of money. 7/22/11 - Raphael Ketani. I spoke to Mr. Sternig (Sandy) (631) 472-4848/cell (631) 514-1094. He said that he had installed a couple of wells upgradient of Metro Garage. He found many gas constituents in the groundwater just upgradient and fewer constituents in the groundwater further upgradient. Mr. Sternig believes that there are gas USTs in this neighboring building at about 230 Varick Avenue, but he could not find any PBS registrations for the facility. He added that Mr. Firpo never had gas USTs in an upgradient location bordering the neighboring building. He said that the DEC will receive a report regarding this part of the investigation by e-mail and hard copy. I told him that I will look out for them. I reminded Mr. Sterning that he had said that he will approach Mr. Firpo regarding the installation of two permanent recovery wells. Mr. Sternig said that he had forgotten to approach Mr. Firpo about this, but he will. Later, Mr. Sternig sent me the VTEQE 7/20/11 data results report. This report showed that well MW-1 was installed next to boring #5 just upgradient (allegedly) and that well MW-2 was installed about 75 feet further upgradient. Both wells were at the corners of the neighboring, upgradient building. Well MW-1 is supposedly next to a gasoline UST that is in this neighboring building. The soil analytical results for borings #1 to #5 were almost entirely non-detect or below CP-51 standards for VOCs, except for a couple of hits for boring #5. These were 6500 ppb of 1,2,4-trimethylbenzene and 2595 ppb of total xylenes. The SVOCs were almost entirely non-detect. Groundwater samples for the 5 borings were almost entirely non-detect. However, the sample for #5 had many below standard hits. Naphthalene was at 141 ppb, 1,2,4-trimethylbenzene was at 277 ppb and total xylenes were at 237 ppb. The groundwater SVOCs were almost entirely non-detect with several hits for the #5 sample. Only groundwater results were presented for MW-1 and MW-2. They showed many VOC and SVOC hits and exceedences. MW-1 had very high exceedences for phenanthrene (4470 ppb), flourene (1280 ppb), and four other SVOCs in the hundreds of parts per billion. MW-2 had very high exceedences for naphthalene (906 ppb), and 4-isopropyltoluene (488 ppb). I spoke to Mr. Sternig (631) 472-4848/cell (631) 514-1094 about the neighboring building. He said that he had talked to Mr. Firpo about this neighbor. Mr. Firpo told him that there used to be a pump island inside the building for delivering gasoline. The building used to house an oil delivery company, but now houses a granite supply company. Allegedly, there is a gasoline UST just inside and below the entrance to the neighboring building. I asked Mr. Sternig about MW-1 and boring #5 and why the groundwater results were so different. He said that boring #5 was just a geoprobe punch. He took a quick groundwater sample and then filled the hole. MW-1 was constructed as a permanent monitoring well. Mr. Sternig said that he saw a sheen on the water when he was developing the well. I asked Mr. Sternig whether he was sure about the address of the neighboring building. He said that he was. I asked him who the tenant or owner was. He said that he didn't know. After this, the conversation ended.

METRO GARAGE (Continued) **S108982334**

I checked the 230 Varick Avenue address. It did not appear in the Spills or PBS databases. Google Earth lists the building at 226 Varick Avenue. However, this address also doesn't appear in either database. I will make a site visit in order to determine the correct address and the ownership of the property. 8/5/11 - Raphael Ketani. I made an unannounced visit to the building to the south which abuts Metro Garage on Varick Avenue. The building used to house an oil trucking company called VIJAX. It now houses a tile company called Buy Tile. There was a vent pipe sticking out from the wall near well MW-2. However, the fill pipe had been removed. I met an employee of the tile company and he told me that Anthony Losquadro owns the building. He showed me mail that was in the inside mailbox for Mr. Losquadro. The pieces of mail didn't have a company name, but the address was 222 Varick Avenue, Brooklyn, 11237-1027. Mr. Losquadro's phone is (917) 681-1206. I looked around the insides of the building and didn't see any oil spills. I assumed that if there still were tanks, that they were somewhere below the floor.
========== THE INFORMATION WITHIN THE LINES PERTAINS TO 210 VARICK AVENUE, NOT 222 VARICK AVENUE. I returned to the office and checked the PBS database. I found PBS case #2-080454. The facility is VIJAX Corp. at 210 Varick Avenue. A 275 gal. UST with #2 oil was closed in place on 9/1/02. A 4000 gal. UST with gasoline was closed in place on 10/1/81. Mr. Losquadro was listed as the operator contact. The E-docs for this PBS case contain a file which has passing tank tests for both USTs. The tests were of the Horner EZY 3 type and took place on 11/4/97. A check of Property Shark revealed that 210 Varick Avenue is a corner building, NOT a building next to Metro Garage.
========== I checked the Spills database, but did not find any spill cases for VIJAX, nor for the addresses 210 or 222 Varick Avenue. The NYC MAP DoITT database includes 222 to 226 Varick Avenue as the same building. The Property Shark database lists 222 Varick Avenue as block and lot 2945 and 10. Mr. Losquadro is the latest owner. 8/8/11 - Raphael Ketani. I contacted Sandy Sternig (631) 472-4848/cell (631) 514-1094. I explained that the DEC had reviewed the 7/20/11 VTEQE report. I added that, according to the soil and groundwater results, the DEC has determined that the abandoned diesel UST in the southwest corner of Metro Garage may have leaked in the past. I asked Mr. Sternig to install borings around this tank. He said that the clearance is the real problem. He has 4 foot rods. He's not sure he will have enough clearance under the roof of the bay. I told him to find the equipment that will do the job and to install the borings around the tank and to the bottom of the tank grave. He said that he will contact Mr. Firpo regarding the request for additional work. 8/11/11 - Raphael Ketani. Yesterday, Mr. Sternig sent me the e-mail shown below: I spoke with Mr. Firpo regarding our conversation on Monday. Mr. Firpo believes that the diesel UST tank was tested prior to concrete slurry abandonment. He has reached out to the contractor for that documentation. If end point samples and satisfactory tank test data are not produced then we will attempt borings within the building. Mr. Firpo also explains that this UST was installed about 2 years prior to the abandonment. He has no objections on providing the recent delineation reports to the owner of 230 Varick St. 8/16/11 - Raphael Ketani. Mr. Sternig sent me the following e-mail: Speaking with Dennis Firpo, Mr. Firpo explained

METRO GARAGE (Continued) **S108982334**

that the present dispenser pump resides above the abandoned UST under the rear garage bay is the original pump. Said dispenser pump originally was connected to the now abandoned diesel UST under the rear garage bay. This diesel dispenser pump is presently connected to the newly installed diesel UST on the north side of the subject property via double walled piping. The original connection to the UST used less than five (5) feet of connecting piping. This area was excavated during re-piping yielding the present connection. The 550 UST heating oil tank also in this area was installed in 2006 during the station redevelopment. Mr. Firpo also explained that the Fire Department was present during the abandonment and would have seen the excavated piping. 9/12/11 - Raphael Ketani. I tried to contact Mr. Sternig (631) 472-4848/cell (631) 514-1094 regarding whether soil borings were performed next to the abandoned diesel UST. 9/13/11 - Raphael Ketani. Mr. Sternig returned my call and left a phone message. He said that Mr. Firpo is still waiting for the tank testing contractor to send him the paperwork for the testing before letting any soil work take place. Mr. Sternig said in the message that he had told Mr. Firpo that the State is loosing patients with him and wants the soil investigation around the tank to move forward. Mr. Sternig finished the message by stating that this is where things stand today. 9/14/11 - Raphael Ketani. I put together a letter to Mr. Firpo explaining that he was in violation of the STIP and that he had until September 30 to submit a work plan for performing borings in the vicinity of the abandoned diesel UST, or else he would face legal action. 9/20/11 - Raphael Ketani. I received the green return card for the 9/14/11 letter, but it did not have a date on it, nor a signature. 9/21/11 - Raphael Ketani. Mr. Sternig sent me an e-mail with the documentation regarding the abandoned UST. He wrote that the documentation was not sufficient for DEC's purposes (it was just a one page tank cleaning, removal, abandonment affidavit from 2008). Mr. Firpo authorized VTEQE to perform soil borings around the UST. The borings will take place this friday. 9/27/11 - Raphael Ketani. Mr. Sternig (631) 472-4848/cell (631) 514-1094 sent me an e-mail. In the e-mail, he stated that two sets of soil and groundwater samples were taken next to the abandoned diesel UST on its south side. Groundwater was at 7.5 feet below grade. Both soil samples had odors of old gasoline and OVA hits up to 110ppm. Data will be submitted to the DEC in about 2 weeks. 10/18/11 - Raphael Ketani. I spoke to Mr. Sternig regarding receipt of the data. He said that the samples were processed and that he has the results. However, he is waiting to be paid for the work before sending the report to the DEC. He expects to submit the report sometime during October 2011. Mr. Sternig added as a sidenote that during the installation of the borings, a water line was severed. This line had not been indicated on the markout. 1/10/12 - Raphael Ketani. I received the VTEQE 1/6/12 Bay Soil and Groundwater Delineation Report. I began my review. 1/18/12 - Raphael Ketani. I finished my review. Two locations were bored on 9/20/11. At each location at soil sample (7.5') and a groundwater sample (10'-12') were taken. The soil VOCs were well below standards and so were the SVOCs. Most of the SVOCs were non-detect. There were several oil analytes present, but their concentrations were well below standards. The groundwater samples were mostly non-detect for VOCs and SVOCs. The analytes that were found were very low. As the information in the case file indicates that there is minimal soil and groundwater contamination from on site facilities, I have determined that there is no threat to the public or the environment. Therefore,

METRO GARAGE (Continued) **S108982334**

Remarks: I closed the spill case. I sent Mr. Sternig a spill closure letter." "spill at gas station taking out tanks discovered spill req dec to call him "

All Materials:

Site ID:	99222
Operable Unit ID:	869660
Operable Unit:	01
Material ID:	507282
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

E61 **NYCDEP - GENERAL STOREHOUSE #1** **RCRA-VSQG** **1006810515**
NNW **1201 METROPOLITAN AVE** **FINDS** **NYR000113217**
< 1/8 **BROOKLYN, NY 11237** **ECHO**
0.073 mi. **NY MANIFEST**
384 ft. **Site 4 of 5 in cluster E**

Relative: **Lower**
Actual: **10 ft.**

RCRA-VSQG:

Date Form Received by Agency:	20131226
Handler Name:	NYCDEP - GENERAL STOREHOUSE #1
Handler Address:	1201 METROPOLITAN AVE
Handler City,State,Zip:	BROOKLYN, NY 11237
EPA ID:	NYR000113217
Contact Name:	SHAY MCATAMNEY
Contact Address:	JUNCTION BLVD
Contact City,State,Zip:	FLUSHING, NY 11373
Contact Telephone:	718-595-4618
Contact Fax:	Not reported
Contact Email:	SMCATAMNEY@DEP.NYC.GOV
Contact Title:	ENVIRONMENTAL COMPLIANCE MANAGER
EPA Region:	02
Land Type:	Municipal
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	JUNCTION BLVD
Mailing City,State,Zip:	FLUSHING, NY 11373
Owner Name:	NYC DEPT OF ENVIRONMENTAL PROTECTION
Owner Type:	Municipal
Operator Name:	NYC DEPT OF ENVIRONMENTAL PROTECTION
Operator Type:	Municipal
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140108
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D018
Waste Description: BENZENE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NYCDEP - GENERAL STOREHOUSE #1
Legal Status:	Municipal
Date Became Current:	20030204
Date Ended Current:	Not reported
Owner/Operator Address:	1201 METROPOLITAN AVE
Owner/Operator City,State,Zip:	BROOKLYN, NY 11237
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NYC DEPT OF ENVIRONMENTAL PROTECTION
Legal Status:	Municipal
Date Became Current:	19960529
Date Ended Current:	Not reported
Owner/Operator Address:	59-17 JUNCTION BLVD
Owner/Operator City,State,Zip:	FLUSHING, NY 11373
Owner/Operator Telephone:	212-639-9675
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NYCDEP-BWSO
Legal Status:	Municipal
Date Became Current:	20030204
Date Ended Current:	Not reported
Owner/Operator Address:	59-17 JUNCTION BLVD
Owner/Operator City,State,Zip:	FLUSHING, NY 11373-5108
Owner/Operator Telephone:	718-366-3322
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NYC DEPT OF ENVIRONMENTAL PROTECTION
Legal Status:	Municipal
Date Became Current:	19960529
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: GENERAL STOREHOUSE #1
Legal Status: Municipal
Date Became Current: 20030204
Date Ended Current: Not reported
Owner/Operator Address: 1201 METROPOLITAN AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-595-5272
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NYCDEP-BWSO
Legal Status: Municipal
Date Became Current: 20030204
Date Ended Current: Not reported
Owner/Operator Address: 59-17 JUNCTION BLVD
Owner/Operator City,State,Zip: FLUSHING, NY 11373-5108
Owner/Operator Telephone: 718-595-5330
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NYCDEP-BWSO
Legal Status: Municipal
Date Became Current: 20030204
Date Ended Current: Not reported
Owner/Operator Address: 59-17 JUNCTION BLVD
Owner/Operator City,State,Zip: FLUSHING, NY 11373-5108
Owner/Operator Telephone: 718-595-5330
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NYCDEP - GENERAL STOREHOUSE #1
Legal Status: Municipal
Date Became Current: 20030204
Date Ended Current: Not reported
Owner/Operator Address: 1201 METROPOLITAN AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20060101
Handler Name: NYCDEP - GENERAL STOREHOUSE #1

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: NYCDEP - GENERAL STOREHOUSE #1
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20030204
Handler Name: GENERAL STOREHOUSE #1
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040831
Handler Name: NYCDEP - GENERAL STOREHOUSE #1
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20131226
Handler Name: NYCDEP - GENERAL STOREHOUSE #1
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 22131
NAICS Description: WATER SUPPLY AND IRRIGATION SYSTEMS

NAICS Code: 49311
NAICS Description: GENERAL WAREHOUSING AND STORAGE

NAICS Code: 53112
NAICS Description: LESSORS OF NONRESIDENTIAL BUILDINGS (EXCEPT MINIWAREHOUSES)

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110014359096

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1006810515
Registry ID: 110014359096
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110014359096
Name: NYCDEP - GENERAL STOREHOUSE #1
Address: 1201 METROPOLITAN AVE
City,State,Zip: BROOKLYN, NY 11237

NY MANIFEST:
Name: NYCDEP
Address: 1201 METROPOLITAN AVE
City,State,Zip: BROOKLYN, NY 11237
Country: USA
EPA ID: NYR000113217
Facility Status: Not reported
Location Address 1: 1201 METROPOLITAN AVE
Code: BP

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000113217
Mailing Name:	NYCDEP
Mailing Contact:	W YULINSKY
Mailing Address 1:	59-17 JUNCTION BLVD 3RD FL
Mailing Address 2:	Not reported
Mailing City:	FLUSHING
Mailing State:	NY
Mailing Zip:	11373
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7185955272

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	09/04/2009
Trans1 Recv Date:	09/04/2009
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/04/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000113217
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	001085997GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	100

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Units:	L
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Waste Code:	D001
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

E62 **NYC DEP** **NJ MANIFEST** **S109533845**
NNW **1201 METROPOLITAN AVE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.073 mi.
384 ft. **Site 5 of 5 in cluster E**

Relative: **Lower**

Actual: **10 ft.**

NJ MANIFEST:

EPA Id:	NYR000113217
Mail Address:	59-17 JUNCTION BLVD
Mail City/State/Zip:	FLUSHING 11373
Facility Phone:	7185955272
Emergency Phone:	Not reported
Contact:	JOHN ZOLLO
Comments:	Not reported
SIC Code:	Not reported
County:	00
Municipal:	00
Previous EPA Id:	Not reported
Gen Flag:	X
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	001085997GBF
EPA ID:	NYR000113217
Date Shipped:	09/04/2009
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJD000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	09/04/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported

NYC DEP (Continued) **S109533845**

Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	09/04/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	FLUSHING 11373
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	100 P

Manifest Number:	003531975JJK
EPA ID:	NYR000113217
Date Shipped:	08/01/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/01/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/01/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported

NYC DEP (Continued) **S109533845**

Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	FLUSHING 11373
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H061
Quantity:	136 G

Manifest Number:	001057023GBF
EPA ID:	NYR000113217
Date Shipped:	01/11/2010
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	01/11/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	01/11/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	FLUSHING 11373
Reason Load Was Rejected:	Not reported

NYC DEP (Continued) **S109533845**

Waste:
Manifest Year: Not reported
Waste Code: D001
Hand Code: H141
Quantity: 20 G

H63 **NYC DEPT OF SANITATION** **RCRA-VSQG** **1006810235**
SSW **VARICK AVE** **NYR000109116**
< 1/8 **BROOKLYN, NY 11237**
0.077 mi.
405 ft. **Site 3 of 6 in cluster H**

Relative: **Lower**
Actual: **12 ft.**

RCRA-VSQG:

Date Form Received by Agency:		20070101
Handler Name:	NYC DEPT OF SANITATION	
Handler Address:		VARICK AVE
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYR000109116
Contact Name:		JOHN S PAWLOWSKI
Contact Address:		BEAVER ST
Contact City,State,Zip:		NEW YORK, NY 10004
Contact Telephone:		917-237-5985
Contact Fax:		Not reported
Contact Email:		UPAWLOWSKI@PACE.EDU
Contact Title:		Not reported
EPA Region:		02
Land Type:		Municipal
Federal Waste Generator Description:		Conditionally Exempt Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		BEAVER ST
Mailing City,State,Zip:		NEW YORK, NY 10004
Owner Name:		NEW YORK CITY DEPARTMENT OF SANITATION
Owner Type:		Municipal
Operator Name:		CITY OF NY DEPARTMENT OF SANITATION
Operator Type:		Municipal
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported

NYC DEPT OF SANITATION (Continued) **1006810235**

Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2003

Click Here for Biennial Reporting System Data:

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CITY OF NEW YORK OF SANITATION
Legal Status:	Municipal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	161 VARICK AVE
Owner/Operator City,State,Zip:	BROOKLYN, NY 11237
Owner/Operator Telephone:	347-881-9722

NYC DEPT OF SANITATION (Continued) **1006810235**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CITY OF NY DEPARTMENT OF SANITATION
Legal Status: Municipal
Date Became Current: 19801231
Date Ended Current: Not reported
Owner/Operator Address: BEAVER ST
Owner/Operator City,State,Zip: NEW YORK, NY 10004
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NEW YORK CITY DEPARTMENT OF SANITATION
Legal Status: Municipal
Date Became Current: 19801231
Date Ended Current: Not reported
Owner/Operator Address: BEAVER ST
Owner/Operator City,State,Zip: NEW YORK, NY 10004
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NEW YORK CITY DEPARTMENT OF SANITATION
Legal Status: Municipal
Date Became Current: 19801231
Date Ended Current: Not reported
Owner/Operator Address: BEAVER ST
Owner/Operator City,State,Zip: NEW YORK, NY 10004
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CITY OF NY DEPARTMENT OF SANITATION
Legal Status: Municipal
Date Became Current: 19801231
Date Ended Current: Not reported
Owner/Operator Address: BEAVER ST
Owner/Operator City,State,Zip: NEW YORK, NY 10004
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20060101
Handler Name: NYC DEPT OF SANITATION
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported

NYC DEPT OF SANITATION (Continued) **1006810235**

Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101
Handler Name: NYC DEPT OF SANITATION	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20020912
Handler Name: NYC DEPT OF SANITATION	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20040618
Handler Name: NYC DEPT OF SANITATION	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	92411
NAICS Description:	ADMINISTRATION OF AIR AND WATER RESOURCE AND SOLID WASTE MANAGEMENT PROGRAMS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

NYC DEPT OF SANITATION (Continued) **1006810235**

Evaluation Action Summary:
Evaluations: No Evaluations Found

H64 **NYC DEPART OF SANITATION (VARICK ST)** **NY LTANKS** **S106003231**
SSW **VARICK AVE** **NY Spills** **N/A**
< 1/8 **BROOKLYN, NY 11237** **NY MANIFEST**
0.077 mi.
405 ft. **Site 4 of 6 in cluster H**

Relative: **Lower**
Actual: **12 ft.**

LTANKS:

Name:	DEPT OF SANITATION SITE
Address:	161 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0305740 / 2003-10-16
Facility ID:	0305740
Site ID:	158270
Spill Date:	2003-08-29
Spill Cause:	Tank Failure
Spill Source:	Unknown
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	CESAWYER
Referred To:	Not reported
Reported to Dept:	2003-08-29
CID:	205
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2003-08-29
Spill Record Last Update:	2003-10-16
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller County:	999
Spiller Contact:	CALLER
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	138348
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SAWYER 10/16/03 1030 Hrs - Sawyer - I talked to Roland Fisher of Tyree Environmental about the soil contamination in the area of the two 550 gallon tanks that they have already removed. Monday 10/20 they are going to remove contaminated soil and try to get clean endpoint samples from the four sides. There is a previous spill open at this address please reference #0201226. Closed. "
Remarks:	"CALLER DUG UP OLD TANKS THAT LEAKED."

All Materials:

Site ID:	158270
Operable Unit ID:	874196
Operable Unit:	01

NYC DEPART OF SANITATION (VARICK ST) (Continued) **S106003231**

Material ID:	502981
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPILLS:

Name:	161 / 165 VARICK AVE
Address:	161 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0201226 / 2006-03-29
Facility ID:	0201226
Facility Type:	ER
DER Facility ID:	138348
Site ID:	164054
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C3
SWIS:	2401
Spill Date:	2002-05-02
Investigator:	DJEATON
Referred To:	Not reported
Reported to Dept:	2002-05-02
CID:	205
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2002-05-02
Spill Record Last Update:	2006-03-29
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	CALLER
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SAWYER Spill Nos. 0305740 and 0204630 have been consolidated under this Spill No. 8/20/02: FUTURE DEPT OF SANITATION DISTRICT 1 AND 4 GARAGE. HIGH LEVELS OF PCB'S. HWR MEETING WITH LIRO ON 8/20/02. SMM. 10/16/03 1030 Hrs - Sawyer - I discussed with Roland Fisher of Tyree Environmental the contaminated soil in the area of the removal of the two 550 gallon tanks. He told me about the excavation planned for 10/20. I informed him that this site had tested high for PCB's in the past. This factor must also be addressed. 10/20/03 1030 Hrs - Sawyer - Met with Roland Fisher and Barry Aronowitz of Arnell Construction Corp. at the site. They had a back hoe dig out approximatly 35 cubic yds with no endpoints in site. Overall contractor stopped excavation

NYC DEPART OF SANITATION (VARICK ST) (Continued) **S106003231**

with plans to meet and discuss another path of remediation. 02/15/06 File reviewed, DOS has submitted various reports. D. Wolterding had previous contact with the DOS, recommended signing agreement - no legal agreement signed. 03/29/06 Recommended next: Transfer project from spills to Haz Waste Remediation, PCBs an issue here. BURA to forward to BURC/REGION."

Remarks: "caller doing site work found contaminated soil."

All Materials:

Site ID:	164054
Operable Unit ID:	854559
Operable Unit:	01
Material ID:	522645
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	SPILL NUMBER 0204630
Address:	161 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0204630 / 2003-02-13
Facility ID:	0204630
Facility Type:	ER
DER Facility ID:	138348
Site ID:	164055
DEC Region:	2
Spill Cause:	Other
Spill Class:	C3
SWIS:	2401
Spill Date:	2002-08-01
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	2002-08-01
CID:	257
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2002-08-01
Spill Record Last Update:	2003-02-13
Spiller Name:	CURTIS CASEY
Spiller Company:	Not reported
Spiller Address:	161 VARICK AVE
Spiller Company:	001
Contact Name:	CURTIS CASEY
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 2/13/2003 - Closed Due To The Nature / Extent Of The Spill

NYC DEPART OF SANITATION (VARICK ST) (Continued) **S106003231**

	Report"
Remarks:	"during some diging on site they came across this tank which appears to have been filled with water and some did spill"

All Materials:

Site ID:	164055
Operable Unit ID:	855776
Operable Unit:	01
Material ID:	518871
Material Code:	0060A
Material Name:	wastewater
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

NY MANIFEST:

Name:	NYC DEPART OF SANITATION (VARICK ST)
Address:	VARICK AVE
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYR000109116
Facility Status:	Not reported
Location Address 1:	161 VARICK AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000109116
Mailing Name:	NYC DEPART OF SANITATION (VARICK ST)
Mailing Contact:	CURTIS CASEY
Mailing Address 1:	161 VARICK AVE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	9175782357

H65 **DSNY BK DISTRICT 1/4 GARAGE** **NY UST** **U004122263**
SSW **161 VARICK AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.077 mi.
405 ft. **Site 5 of 6 in cluster H**

Relative: **Lower**

Actual: **12 ft.**

UST:

Name:	DSNY BK DISTRICT 1/4 GARAGE
Address:	161 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Id/Status:	2-610872 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	10/19/2022
UTM X:	590493.26574
UTM Y:	4507230.73845
Site Type:	Municipality (Incl. Waste Water Treatment Plants, Utilities, Swimming Pools, etc.)

Affiliation Records:

Site Id:	400593
Affiliation Type:	Facility Owner
Company Name:	NYC DEPARTMENT OF SANITATION
Contact Type:	ASSISTANT CHIEF
Contact Name:	JOSEPH CENDAGORTA
Address1:	125 WORTH STREET, ROOM 823B
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10013
Country Code:	001
Phone:	(646) 885-4856
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2021-04-14

Site Id:	400593
Affiliation Type:	Facility Operator
Company Name:	DSNY BK DISTRICT 1/4 GARAGE
Contact Type:	Not reported
Contact Name:	DAVID KUPERSZMID
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 571-6413
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-11-16

Site Id:	400593
Affiliation Type:	Mail Contact
Company Name:	NYC DEPARTMENT OF SANITATION
Contact Type:	Not reported
Contact Name:	FRANK SCARPACI
Address1:	125 WORTH STREET

DSNY BK DISTRICT 1/4 GARAGE (Continued) **U004122263**

Address2:	ROOM 823 B
City:	NEW YORK
State:	NY
Zip Code:	10013
Country Code:	001
Phone:	(646) 885-4887
EMail:	FSCARPACI@DSNY.NYC.GOV
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-11-16

Site Id:	400593
Affiliation Type:	Emergency Contact
Company Name:	NYC DEPARTMENT OF SANITATION
Contact Type:	Not reported
Contact Name:	BUREAU OF CLEANING & COLLECTION
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 885-5051
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MXAJOKU
Date Last Modified:	2015-11-18

Tank Info:

Tank Number:	001
Tank ID:	223930
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	4000
Install Date:	10/19/2007
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2710
Common Name of Substance:	Biodiesel

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	D
Modified By:	DMPOKRZY
Last Modified:	01/03/2018

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
B04 - Tank External Protection - Fiberglass

DSNY BK DISTRICT 1/4 GARAGE (Continued) **U004122263**

E04 - Piping Secondary Containment - Double walled UG
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
I03 - Overfill - Automatic Shut-Off
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None

Tank Number: 002
Tank ID: 223929
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 10/19/2007
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: D
Modified By: DMPOKRZY
Last Modified: 01/03/2018

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
E04 - Piping Secondary Containment - Double walled UG
C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
A00 - Tank Internal Protection - None

Tank Number: 003
Tank ID: 229956
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 2500
Install Date: 10/19/2007
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass coated steel
Material Code: 0010

DSNY BK DISTRICT 1/4 GARAGE (Continued) **U004122263**

Common Name of Substance: Hydraulic Oil

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: DMPOKRZY
Last Modified: 01/03/2018

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
J02 - Dispenser - Suction Dispenser
F04 - Pipe External Protection - Fiberglass
C03 - Pipe Location - Aboveground/Underground Combination
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

Tank Number: 004
Tank ID: 223928
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 2500
Install Date: 10/19/2007
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass coated steel
Material Code: 0015
Common Name of Substance: Motor Oil

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: D
Modified By: DMPOKRZY
Last Modified: 01/03/2018

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
C03 - Pipe Location - Aboveground/Underground Combination
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring

DSNY BK DISTRICT 1/4 GARAGE (Continued) **U004122263**

I03 - Overfill - Automatic Shut-Off
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 005
Tank ID: 223927
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 550
Install Date: 10/19/2007
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass coated steel
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: D
Modified By: DMPOKRZY
Last Modified: 01/03/2018

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
J00 - Dispenser - None
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 006
Tank ID: 223934
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 10/19/2007
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 2710
Common Name of Substance: Biodiesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: D
Modified By: DMPOKRZY

DSNY BK DISTRICT 1/4 GARAGE (Continued) **U004122263**

Last Modified: 01/03/2018

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
E04 - Piping Secondary Containment - Double walled UG
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
I03 - Overfill - Automatic Shut-Off
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring

Tank Number: 007
Tank ID: 223933
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 10/19/2007
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: D
Modified By: DMPOKRZY
Last Modified: 01/03/2018

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
E04 - Piping Secondary Containment - Double walled UG
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
A00 - Tank Internal Protection - None

Tank Number: 008
Tank ID: 229957

DSNY BK DISTRICT 1/4 GARAGE (Continued) **U004122263**

Tank Status: In Service
Material Name: In Service
Capacity Gallons: 2500
Install Date: 10/19/2007
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass coated steel
Material Code: 0010
Common Name of Substance: Hydraulic Oil

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: DMPOKRZY
Last Modified: 01/03/2018

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
J02 - Dispenser - Suction Dispenser
C03 - Pipe Location - Aboveground/Underground Combination
F04 - Pipe External Protection - Fiberglass
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 009
Tank ID: 223932
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 2500
Install Date: 10/19/2007
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass coated steel
Material Code: 0015
Common Name of Substance: Motor Oil

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: D
Modified By: DMPOKRZY
Last Modified: 01/03/2018

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
I02 - Overfill - High Level Alarm

DSNY BK DISTRICT 1/4 GARAGE (Continued) **U004122263**

B04 - Tank External Protection - Fiberglass
L09 - Piping Leak Detection - Exempt Suction Piping
K01 - Spill Prevention - Catch Basin
E04 - Piping Secondary Containment - Double walled UG
C03 - Pipe Location - Aboveground/Underground Combination
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I03 - Overfill - Automatic Shut-Off

Tank Number:	010
Tank ID:	223931
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	550
Install Date:	10/19/2007
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	D
Modified By:	DMPOKRZY
Last Modified:	01/03/2018

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
J00 - Dispenser - None
K01 - Spill Prevention - Catch Basin
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

I66 **GRAND STREET BRIDGE** **NY Spills** **S102149278**
WNW **METROPOLITAN AVE** **N/A**
< 1/8 **QUEENS, NY**
0.078 mi.
412 ft. **Site 1 of 12 in cluster I**

Relative: SPILLS:
Lower

Name:	METROPOLITAN AVE
Address:	METROPOLITAN AVE
City,State,Zip:	QUEENS, NY

Actual:
4 ft.

GRAND STREET BRIDGE (Continued) **S102149278**

Spill Number/Closed Date:	9610924 / 1998-04-28
Facility ID:	9610924
Facility Type:	ER
DER Facility ID:	81499
Site ID:	89187
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	4101
Spill Date:	1996-12-04
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1996-12-04
CID:	351
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-12-04
Spill Record Last Update:	1998-04-28
Spiller Name:	JOHN GARCIA
Spiller Company:	METRO FUEL
Spiller Address:	500 KINGSLAND AV
Spiller Company:	001
Contact Name:	JOHN GARCIA
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE CLEANED BY RP. "
Remarks:	"BROKEN PIPE ON TRUCK CAUSED SPILL "

All Materials:

Site ID:	89187
Operable Unit ID:	1042315
Operable Unit:	01
Material ID:	558313
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30.00
Units:	G
Recovered:	30.00
Oxygenate:	Not reported

Name:	GRAND STREET BRIDGE
Address:	METROPOLITAN AVE
City,State,Zip:	QUEENS, NY
Spill Number/Closed Date:	9708562 / 1997-10-22
Facility ID:	9708562
Facility Type:	ER
DER Facility ID:	81499
Site ID:	89188
DEC Region:	2

GRAND STREET BRIDGE (Continued) **S102149278**

Spill Cause:	Human Error
Spill Class:	E5
SWIS:	4101
Spill Date:	1997-10-22
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1997-10-22
CID:	311
Water Affected:	GOWANUS CANAL
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-10-22
Spill Record Last Update:	1997-10-24
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE mmmmm FAX TO DEP. UNFOUNDED - MARK WAS THERE."
Remarks:	"caller states that workers on the bridge are cleaning same and run off is going into the canal. "

All Materials:

Site ID:	89188
Operable Unit ID:	1051721
Operable Unit:	01
Material ID:	330526
Material Code:	0045A
Material Name:	cleaning chemicals/products
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

F67 **SUNSHINE BISCUITS INC** **NY LTANKS** **1000788133**
NE **1251 METROPOLITAN AVE** **NY UST** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.079 mi.
419 ft. **Site 4 of 9 in cluster F**

Relative: LTANKS:
Lower

Name:	1251 METROPOLITAN AVE. /
Address:	1251 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	8607890 / 1987-03-25
Facility ID:	8607890
Site ID:	110767
Spill Date:	1987-03-24

Actual:
12 ft.

SUNSHINE BISCUITS INC (Continued) **1000788133**

Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Not reported
Cleanup Ceased:	1987-03-25
SWIS:	2401
Investigator:	UNASSIGNED
Referred To:	Not reported
Reported to Dept:	1987-03-25
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1987-04-02
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	SUNSHINE BISQUIT
Spiller Address:	1251 METROPOLITAN AVE.
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	96975
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was "
Remarks:	"2000 GALLONS (NO-LEAD) GASOLINE UNDERGROUND TANK SYSTEM FAILED PETRO TITE @ -.107 G/HR. POSSIBLE CAUSE EXTERNAL TEMPERATURE.CONTRACTOR ADVIS"

All TTF:

Facility ID:	8607890
Spill Number:	8607890
Spill Tank Test:	1530658
Site ID:	110767
Tank Number:	Not reported
Tank Size:	0
Material:	0009
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	110767
Operable Unit ID:	905528
Operable Unit:	01
Material ID:	473380
Material Code:	0009

SUNSHINE BISCUITS INC (Continued) **1000788133**

Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Not reported
Recovered: .00
Oxygenate: Not reported

UST:
Name: SUNSHINE BISCUITS INC
Address: 1251 METROPOLITAN AVE
City,State,Zip: BROOKLYN, NY 11237
Id/Status: 2-245070 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: 590657.22867
UTM Y: 4507553.62098
Site Type: Unknown

Affiliation Records:
Site Id: 9517
Affiliation Type: Facility Owner
Company Name: SUNSHINE BISCUITS INC
Contact Type: Not reported
Contact Name: Not reported
Address1: 100 WOODBRIDGE CENTER DR
Address2: Not reported
City: WOODBRIDGE
State: NJ
Zip Code: 07095
Country Code: 001
Phone: (201) 855-4000
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Site Id: 9517
Affiliation Type: Mail Contact
Company Name: SUNSHINE BISCUITS INC
Contact Type: Not reported
Contact Name: Not reported
Address1: 100 WOODBRIDGE CENTER DR
Address2: Not reported
City: WOODBRIDGE
State: NJ
Zip Code: 07095
Country Code: 001
Phone: (201) 855-4000
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

SUNSHINE BISCUITS INC (Continued) **1000788133**

Site Id:	9517
Affiliation Type:	Facility Operator
Company Name:	SUNSHINE BISCUITS INC
Contact Type:	Not reported
Contact Name:	SUNSHINE BISCUITS INC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 456-1220
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	9517
Affiliation Type:	Emergency Contact
Company Name:	SUNSHINE BISCUITS INC
Contact Type:	Not reported
Contact Name:	JACQUES MICHEL EYMA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 723-4098
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank ID:	40471
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	4000
Install Date:	12/01/1979
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

SUNSHINE BISCUITS INC (Continued) **1000788133**

A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
I04 - Overfill - Product Level Gauge (A/G)

Tank Number:	002
Tank ID:	40472
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	2000
Install Date:	12/01/1979
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

D00 - Pipe Type - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)

I68 **MANHOLE #15350** **NY Spills** **S104194307**
NW **VARICK AVE & METROPOLITAN** **N/A**
< 1/8 **BROOKLYN, NY**
0.082 mi.
433 ft. **Site 2 of 12 in cluster I**

Relative: **Lower**
Actual: **8 ft.**

SPILLS:

Name:	MANHOLE #15350
Address:	VARICK AVE & METROPOLITAN
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9906203 / 1999-11-10
Facility ID:	9906203
Facility Type:	ER
DER Facility ID:	61901
Site ID:	64194
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4

MANHOLE #15350 (Continued) **S104194307**

SWIS:	2401
Spill Date:	1999-08-24
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	1999-08-24
CID:	252
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1999-08-24
Spill Record Last Update:	2000-06-01
Spiller Name:	UNKNOWN
Spiller Company:	Unknown
Spiller Address:	UNKNOWN
Spiller Company:	999
Contact Name:	MARK SCHLAGEL
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL Con ed e2mis notes: 3 quarts of unknown oil on 1200 gallons of water in MH15350. Took 1 sample. lsn #99-08879 <1ppm. <1.0 ppm clean up complete and tag removed. Incident is closed. "
Remarks:	"NO WATER WAYS OR SEWERS AFFECTED-SAMPLE TAKEN-CLEAN UP PENDING RESULTS-CON ED #127390"

All Materials:

Site ID:	64194
Operable Unit ID:	1084645
Operable Unit:	01
Material ID:	302471
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

I69 **ROADWAY** **NY Spills** **S109414366**
NW **METROPOLITAN AVE & VARICK AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.082 mi.
433 ft. **Site 3 of 12 in cluster I**

Relative: **Lower**
Actual: **8 ft.**

SPILLS:

Name:	ROADWAY
Address:	METROPOLITAN AVE & VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0811297 / 2009-01-14
Facility ID:	0811297
Facility Type:	ER
DER Facility ID:	358126

ROADWAY (Continued) **S109414366**

Site ID:	408867
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	D5
SWIS:	2401
Spill Date:	2009-01-13
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2009-01-13
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-01-13
Spill Record Last Update:	2009-01-14
Spiller Name:	ECO NICHOLS
Spiller Company:	SUNOCO GAS
Spiller Address:	METROPOLITAN AVE & VARICK AVE
Spiller Company:	999
Contact Name:	ECO NICHOLS
DEC Memo:	"Sangesland spoke to ECO Nichols. He says a gas station was doing tank work and during his site inspection he saw 1 gal of antifreeze on the pavement."
Remarks:	"Caller states a truck was leaking fluid onto the blacktop. Caller was also concerned about the vehicle selling fuel from the roadside. Speedy dry was put down by employees, some product did go into a storm drain."

All Materials:

Site ID:	408867
Operable Unit ID:	1165377
Operable Unit:	01
Material ID:	2156784
Material Code:	0043A
Material Name:	antifreeze
Case No.:	Not reported
Material FA:	Other
Quantity:	1.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

70
East
< 1/8
0.085 mi.
449 ft.

CON EDISON - MANHOLE 57887
169 GARDNER AVE
BROOKLYN, NY 11237

NY MANIFEST **S120958060**
N/A

Relative:
Higher

Actual:
14 ft.

NY MANIFEST:

Name:	CON EDISON - MANHOLE 57887
Address:	169 GARDNER AVE
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP004907632
Facility Status:	Not reported
Location Address 1:	169 GARDNER AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004907632
Mailing Name:	CON EDISON - MANHOLE 57887
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL 15TH FL NE
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

F71
NE
< 1/8
0.086 mi.
455 ft.

Site 5 of 9 in cluster F

SUNSHINE BISCUITS
1251 METROPOLITAN AVE
MASPETH, NY 11378

RCRA NonGen / NLR **1000381578**
FINDS **NYD078159936**
ECHO
NY MANIFEST

Relative:
Lower

Actual:
12 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20070101
Handler Name:	SUNSHINE BISCUITS	
Handler Address:		1251 METROPOLITAN AVE
Handler City,State,Zip:		MASPETH, NY 11378
EPA ID:		NYD078159936
Contact Name:		Not reported
Contact Address:		METROPOLITAN AVE
Contact City,State,Zip:		MASPETH, NY 11378
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported

SUNSHINE BISCUITS (Continued) **1000381578**

Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	METROPOLITAN AVE
Mailing City,State,Zip:	MASPETH, NY 11378
Owner Name:	SUNSHINE BISCUITS
Owner Type:	Private
Operator Name:	SUNSHINE BISCUITS
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported

SUNSHINE BISCUITS (Continued) **1000381578**

Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SUNSHINE BISCUITS
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SUNSHINE BISCUITS
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SUNSHINE BISCUITS
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990708
Handler Name: SUNSHINE BISCUITS	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY

SUNSHINE BISCUITS (Continued) **1000381578**

Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060101
Handler Name: SUNSHINE BISCUITS	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101
Handler Name: SUNSHINE BISCUITS	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19890530
Handler Name: SUNSHINE BISCUITS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

SUNSHINE BISCUITS (Continued) **1000381578**

FINDS:
Registry ID: 110001572236

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000381578
Registry ID:	110001572236
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001572236
Name:	SUNSHINE BISCUITS
Address:	1251 METROPOLITAN AVE
City,State,Zip:	MASPETH, NY 11378

NY MANIFEST:

Name:	SUNSHINE BISCUITS
Address:	1251 METROPOLITAN AVE
City,State,Zip:	MASPETH, NY 11378
Country:	USA
EPA ID:	NYD078159936
Facility Status:	Not reported
Location Address 1:	1251 METROPOLITAN AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	MASPETH
Location State:	NY
Location Zip:	11378
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD078159936
Mailing Name:	SUNSHINE BISCUITS
Mailing Contact:	SUNSHINE BISCUITS
Mailing Address 1:	1251 METROPOLITAN AVE
Mailing Address 2:	Not reported
Mailing City:	FLUSHING
Mailing State:	NY
Mailing Zip:	11378
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7183490890

J72 **46-25 METROPOLITAN AVE** **NY Spills** **S102671916**
NW **46025 METROPOLITAN AVE** **N/A**
< 1/8 **RIDGEWOOD, NY**
0.087 mi.
461 ft. **Site 1 of 5 in cluster J**

Relative: **Lower**

Actual: **9 ft.**

SPILLS:

Name:	46-25 METROPOLITAN AVE
Address:	46025 METROPOLITAN AVE
City,State,Zip:	RIDGEWOOD, NY
Spill Number/Closed Date:	9204008 / 2013-10-28
Facility ID:	9204008
Facility Type:	ER
DER Facility ID:	78016
Site ID:	84865
DEC Region:	2
Spill Cause:	Other
Spill Class:	A3
SWIS:	4101
Spill Date:	1992-07-07
Investigator:	AAOBLIGA
Referred To:	Not reported
Reported to Dept:	1992-07-07
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-07-08
Spill Record Last Update:	2013-10-29
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL 4/12/04-Vought-Spill transferred from Tibbe to Rommel as per Rommel 12/29/05 Transferred to E. Hampston via Spill Initative. Called listed owner via PBS information (J. Brown 718-243-4581) no pickup, no voice mail. Will forward letter requesting information. 11/02/06 Reassigned to Sun.(JS/MS) 2/13/07: Original contact number on PBS is for former location (on Jay Street) of MTA facility. Contact made with representative at 646.252.5777. Rachel Kron who is in charge of MTA spills will get back to me (MS) upon obtaining associated documents. (JS/MS) 5/15/07: As per R. Kron, MTA meets with DEC monthly and this site will be brought up at next meeting. She will contact me with update after meeting. See M.Tibbe. (JS/MS) 8/2/07: DEC still has not heard from MTA. Will contact Mrs. Kron again and issue a letter if necessary. (JS/MS) 12/3/07: Site should be brought up at next MTE/DEC meeting. (JS/MS) 04-04-08: Transferred to Tibbe. 11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/28/11 - Obligado - Spill re-assigned from O'Connell to Obligado 10/30/13 - I reviewed the file. File contains a Phase I and II report prepared for MTA. The Phase I report mentions the spill. Apparently,

46-25 METROPOLITAN AVE (Continued) **S102671916**

the spill was called in as a result of contaminated soil found during excavation of the 550 USTs. There were historically 18 550 USTs at the site encased in concrete. The Phase 1 report referrences a UST Removal Management Report prepared by Kemron Enviornmental Services, dated September 1992. The actual report is not included in the Phase 1. According to the Phase 1 description of the report, soil contamination was discovered in the vicinity of the former UST area. The tanks were enclosed in a concrete vault. The tanks and soil were excavated and analysis of final pit samples indicated no soil contamination. The contamination was reportedly removed in its entirety. During the Phase II assessment, 3 soil borings and 1 monitoring well was installed in the vicinity of this former 550 gallon UST area. While petroleum staining and odors were noted in 3 of the 4 soil borings, analytical results were below SCOs for VOCs. SVOCs were predominantly below SCOs with the exception of some minor exceedence of PAHs which were attributed to historic fill. The GW sample from B/MW5 within the former tank footprint was ND for both VOCs and SVOCS. Based on the documents in the file, it appears that this spill has been remediated in 1992 when the tanks were pulled. The 2000 Phase II investigation confirmed that there were limited impacts to the environment. According to the file, the site was purchased by MTA and has already been redeveloped into a new receiving facility. This spill is closed."

Remarks: "CONTAM SOIL DISCOVERED DURING EXCAVATION. WILL STOCKPILE, TEST, & DISPOSE."

All Materials:

Site ID:	84865
Operable Unit ID:	971401
Operable Unit:	01
Material ID:	411771
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

G73 **COMMERCIAL PROPERTY** **NY Spills** **S107788365**
SW **175 VARICK AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.093 mi.
493 ft. **Site 4 of 5 in cluster G**

Relative: **Lower**
Actual: **6 ft.**

SPILLS:

Name:	COMMERCIAL PROPERTY
Address:	175 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0601947 / 2011-11-18
Facility ID:	0601947
Facility Type:	ER
DER Facility ID:	314541
Site ID:	364315
DEC Region:	2
Spill Cause:	Equipment Failure

COMMERCIAL PROPERTY (Continued) **S107788365**

Spill Class:	C3
SWIS:	2401
Spill Date:	2006-05-23
Investigator:	RVKETANI
Referred To:	FINAL REMEDIAL ACTION REPORT BY 1/31/09
Reported to Dept:	2006-05-23
CID:	409
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-05-23
Spill Record Last Update:	2011-11-21
Spiller Name:	CHET BIJOOR
Spiller Company:	COMMERCIAL PROPERTY
Spiller Address:	175 VARICK AVE
Spiller Company:	999
Contact Name:	CHET BIJOOR
DEC Memo:	"05/24/06-Vought-Spill transferred from DEC Vought to DEC Tang as per DEC Austin due to necessity of long term remediation. 07/13/06-Vought-Received call from Amit Haryani (Earth Tech 973-337-4218) who is representing Waste Management. NYC looking to buy property from Waste management and as part of due diligence two rounds of site investigation were performed and gasoline contamination was detected in soil and groundwater. Onsite and offsite investigation was performed and source was inconclusive due to occurrence of off site contamination and spill case was filed with DEC. Waste Management hired Earth Tech to perform additional investigation and determine groundwater flow direction. Earth Tech prepared Site Investigation workplan and requesting meeting with DEC to discuss scope of work. Waste Management wishes to be proactively aggressive in pursuing cleanup due to possible NYC purchase. ---------- ---------- 10/16/06 Re-assigned from Yau to Chanda (Chanda) 12/21/06: Kartik Chanda of DEC called Mr.Amit Haryani(Earth Tech) regarding the site update information. He stated that Earth Tech has prepared site investigation work plan and he will send DEC office as soon as possible. 01/12/07: Chanda received Supplemental Site Investigation Work Plan, August, 2006 and Health & Safety Plan, August 2006, prepared by Earth Tech, Inc. 2/6/07: Chanda reviewed the site investigation work plan and approved with the following conditions on 2/6/07: 1.The Department requires an additional monitoring well (MW-7) should be installed at location down- gradient of the existing monitoring well (MW-1). 2. A surrounding property sketch including property layout and usage must be submitted to the Department. North arrow and scale must also be included on the site plan. 2/7/07: Chanda sent a letter to RP(Jay Kaplan) and Amit Haryani(Earth Tech), requiring that a site investigation summary report be submitted to DEC for review by 4/6/2007. 4/10/07: Chanda received a phone call from Amit Haryani(Earth Tech.) regarding to extension time to submit investigation report. He will send Time extension request letter as soon as possible. 4/11/07: Chanda

COMMERCIAL PROPERTY (Continued) **S107788365**

received an extention request letter from Earth Tech, Inc on 4/11/07. 4/12/07: Chanda sent the approval letter to RP(Jay Kaplan) and Amit Haryani (Earth Tech), requiring that a Site Investigation Summary Report be submitted to DEC for review by June 11, 2007. 4/16/07: Chanda received an email from Amit Haryani, Earth Tech, Inc. He proposed to use the Membrane Interface Probe (MIP) to delineate the extent of soil contamination on-site. 4/25/07: Per conversation with Joe Sun and Consultant (Amit)regarding of the Triad Approach method.Joe Sun is satisfied with explanation regarding Membrane Interface Probe (MIP). The Department recommends using the MIP to delineate the extent of soil contamination on- site.(Chanda) 6/18/07: Chanda received an email from Amit Haryani, Earth Tech. He requested that he would like to set a meeting with NYSDEC. He proposed to meet on 7/2/07 to discuss about investigation findings and recommendations. 7/2/07: Amit Haryani, Joseph J. Fiteni(Earth Tech), Jay Kaplan, and Christopher P. Prucha (Wast Management) attened to meet in DEC office with Kartik Chanda,and Joe Sun of DEC to discuss site investigation results and remediation method regarding the GW contamination at the site.The meeting is concluded that a remedial action plan is required to be submitted to the DEC for approval. 9/6/07: Chanda received a Supplemental Site Investigation Report (SSIR) prepared by Earth Tech dated on Auguest 29, 2007. 9/25/07: Chnada reviewed the SSIR report and has the following comment: The groundwater(GW) analytical results showed elevated levels of VOCs. For well MW-2, the levels of BTEX and MTBE are 6,660 ppb and 27 ppb, respectively. In addition benzene and MTBE were detected in the temporary well points (TW-1 and TW-2) and a permanent monitoring well (MW-1). The high VOCs concentrations indicated that the GW had been contaminated and thus, is required to be remediated and monitored. On 9/25/07: Chanda approves the SSIR. A Remedial Action Plan (RAP) be submitted to the NYSDEC by 11/12/07. The RAP shall detail the work proposed to remediate all contaminated media. 10/12/07: Chanda received a RAP from Mr. Jay Kaplan, Environmental Manager, Wast management of New York, LLC dated 10/2/07 prepared by Construction Service International, Inc., dated October 2007. 10/24/07: On 10/23/07, Chanda reviewed and approved the RAP with the following conditions: 1.Soil endpoint samples will be collected in accordance with DER-10 in the area of concern subsequent to the soil excavation near the UST area. 2.The permanent monitoring wells should be developed and sampled to determine baseline groundwater quality conditions prior to implementing the RegenOX"! and ORC Advanced"! injections. 3. Several parameters, including temperature, pH, oxidation-redox potential (ORP), conductivity and dissolved oxygen (DO) shall be monitored in all the monitoring wells. Any potential accumulation of vapors during the injection activities shall be avoided. 4. If follow-up groundwater monitoring indicates that the RegenOX"! and ORC Advanced"! are not effectively reducing contaminant concentrations, an alternative remedial approach must be developed. 10/24/07: Chanda sent an approval letter to RP (Jay Kaplan) and his consultant, requiring that the RP shall implement the RAP incorporating the above conditions according to the schedule indicated in table -2 of the RAP. 3/17/08: Chanda received a letter with RAP implementation schedule and site plan for existing wells, new well location (MW-8), proposed in-situ remediation injection locations for this site. UST Closure and GW remediation project schedule are figure-5. The Remedial Action Report will be submit to DEC by 8/8/08.(see eDocs) 7/28/08: Chanda received a Supplemental

COMMERCIAL PROPERTY (Continued) **S107788365**

Baseline Groundwater Results prepared by Construction Services International, Inc., dated 7/22/08. (see eDocs) 8/01/08: Chanda received a Remedial Action Plan Revised Implementation Schedule from Construction Services International, Inc. dated 7/30/08. Revised Implementation Schedule stated that a final remediation report will be submitted in January 2009.(see eDocs) 8/26/08: Chanda sent a letter to RP and his consultant, requiring that the final remedial report be submitted to DEC by 1/31/09 for review and approval. 11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/2/11 - Raphael Ketani. Spill case reassigned from O'Connell to Ketani. 11/8/11 - Raphael Ketani. I received an e-mail from Mr. O'Connell. He said that Craig Stevens cell (443) 871-8347 called him regarding the site. Mr. Stevens wanted to meet with DEC staff to discuss what is going on at the site. Mr. Stevens later sent Mr. O'Connell the January 7, 2011 Remedial Action Work Plan Addendum 2 and the July 12, 2011 Remedial Action Work Plan Addendum 2, Revision 1. 11/9/11 - Raphael Ketani. Mr. Stevens contacted Mr. O'Connell again, who referred him to Hassan Hussein, the manager of the Hazardous Materials Unit. Mr. Hussein called Mr. Stevens and I and we had a conference call. Mr. Stevens said that soil excavation was taking place and that he would like to meet with us and show us the site. We tentatively set up a site meeting for monday, 11/14/11, at 11 AM. The spill was reported to the DEC on 5/23/06 as a site where groundwater contamination was being treated and further investigation was taking place. According to ACRIS, the site is block and lot 2962 and 11. The City took over the property from Louis Fine of M. Fine Lumber. The deed was dated 5/28/86. The PBS is #2-604641. There was a 550 gal. UST with diesel fuel that was removed on 7/1/2000. M. Fine Lumber was the owner at the time. There are no other spill cases. Craig Stevens, PG, Principal Hydrogeologist, is at Construction Services International, Inc., 918 Chesapeake Avenue, Anapolis, MD, 21403, (410) 268-7261/ cell (443) 871-8347. I reviewed the July 12, 2011 RAWP Addendum 2, Revision 1. The site is a former Fine Lumber Yard. The material is petroleum from a UST that was removed. Two (2) applications of the treatment solutions were applied to the groundwater. Mr. Stevens stated that the applications were effective in reducing the contamination in the groundwater. The former UST area is very contaminated at 7 to 9 feet below grade, about just above the water table. The contaminants are VOCs. During 3/2008, the UST was removed. During 11/2008 and 12/2008, there was a round of treatment solution injections for each month. Six (6) rounds of groundwater monitoring took place from February to October of 2009. During 3/2010, more groundwater monitoring took place. During 6/2010, 7 borings and 3 more monitoring wells were installed, and soil and groundwater samples were collected. The 9/2010 letter report stated that during 6/2010 there was a supplemental environmental study. The vertical extent of the contamination was defined and it was found that the petroleum was not migrating laterally beyond the locations of MW-2R and MW-10 (historically the most contaminated locations). The purpose of the Addendum is to provide the scope of work for addressing the soil contamination at 7 to 9 feet below grade. RegenOx will be used as a contingency plan if the bulk of the contaminated soil can not be removed. The soil results will be compared to STARS standards. The building will be demolished and some of the wells may be destroyed in the process. 11/10/11 - Raphael Ketani. I tried to find the paper files for the case, but could not locate anything. 11/14/11 - Raphael Ketani. A site visit took place today. In

COMMERCIAL PROPERTY (Continued) **S107788365**

attendance were Paul John, DEC Regional Environmental Engineer, Hassan Hussein, DEC Environmental Engineer III - head of the Hazardous Materials Unit, myself, Mr. Stevens of CSI Environmental, John Sullivan, Site Manager Waste Management of New York, and Christopher Prucha, CPG - Waste Management. Mr. Stevens presented the site history and the efforts that were made to investigate and remediate the site. It was stated that the site is owned by Waste Management. The City plans to buy the site and build a salt storage facility on the eastern half of the property. This part of the property will be convered with asphalt by the City. The property borders the English Kills. Groundwater is at about 5 feet to 7 feet below grade, depending on the season. Ninety seven percent of the contaminant mass was at the 7 to 9 foot level and has been removed. The contamination is not moving off site. We then toured the site itself. It was a vacant lot. The building had been torn down. Mr. Stevens pointed out on a site plan where the 550 gal. diesel UST had been. We saw a depression where contaminated soil had been excavated. Mr. Stevens explained a little more about the remediation efforts. After this we left the site. Before leaving, Mr. Stevens gave me copies of the 11/13/09 Remedial Action Status Report, 9/14/10 June 2010 Post-Remedial Action Environmental Study Report, 11/4/11 Remedial Action Closure Report, and a copy on disc of the November 2011 WMNY Closure Report. 11/18/11 - Raphael Ketani. I reviewed the Construction Services November 13, 2009 Remedial Action Status Report, September 14, 2010 June 2010 Post Remedial Action Environmental Study Report, and November 4, 2011 Remedial Action Closure Report. The 11/13/09 Remedial Action Status Report described the two rounds of treatment solution injections and listed the groundwater analyte VOC concentrations up to the 10/6/09 and 10/7/09 sampling round. The results for MW-2R and MW-10 were still very high with hits predominantly in the triple digit range for most analytes. The 9/14/10 June 2010 Post Remedial Action Environmental Study Report described that the soil analytical results and the groundwater analytes suggest that the contaminants are still mostly bound up in the soil (Construction Services estimates the total is 97% of the VOC mass) and are not being readily released. The bulk of the adsorbed VOCs are in an area from SB-1 to SB-4 and include MW-2R and MW-10. However, the contamination is not leaving the site. The groundwater analyte results (6/24/10 and 6/25/10 rounds) were in the high double digits to 4,000 ppb of total xylenes at boring SB-3. The results for MW-2R and MW-10 actually decreased, in general, from the concentrations in the October 2010 samples 10/6/09 and 10/7/09. The 11/4/11 Remedial Action Closure Report stated that soil excavation was completed during August 2011. Residual hydrocarbons were found in the soil at a depth of 7 to 9 feet below grade in an area from well MW-10 to well MW-2R. About 700 cubic yards of soil were removed. The excavation area was partially within the footprint of the former building. Groundwater samples were taken from wells MW-2R to MW-7 and MW-9 to MW-12 on 8/8/11 (the other wells were destroyed when the building was knocked down earlier). Table 2 shows that the analyte concentrations for the groundwater sample from MW-2R typically vary from non-detect to the high double digits with only four analytes showing up to 190 ppb. However, the 8/8/11 sample from MW-10 has 4 analytes up to 490 ppb and three analytes up to 2300 ppb. These results for MW-10 are in the low range for all of the results that have been obtained from this well over the course of the 4 years of sampling from 2008 to 2011. Table 5 contains the post excavation soil

COMMERCIAL PROPERTY (Continued) **S107788365**

sampling results. The great majority of the analytes from each sample are non-detect. Sample EX BASE 5 had 230 ppb of benzene, but this was the only hit of significance amongst all of the data in the table. A statement towards the end of the report says that the fill in the area is a source of high concentrations of analytes. There are pictures in the report which show the sidewalls of the excavation. One picture shows historical fill over red-brown glacial sediments (possibly more fill) which is underlain by dark brownish gray clay and sand. As a side note, it was mentioned to staff at the DEC by Mr. Stevens and Mr. Sullivan that the NYC DOS wants to pave the eastern part of the site where the excavating took place and put up a salt shed (see e-docs). As the great majority of the contamination was removed when the soil was excavated in the eastern part of the site, and as the groundwater analyte concentrations were largely non-detect or low by 8/8/11, and as the site is underlain with historical fill which yields various analytes, and as the area surrounding the site is an industrial area which generates contaminants, and as the future use of the site will be a salt shed on pavement, I have determined that the remaining contamination is not a threat to the public or the environment. Therefore, I am closing the spill case. 11/21/11 - Raphael Ketani. I sent a Spill Closure Letter to Mr. Stevens, Mr. Sullivan and Mr. Prucha. "

Remarks: "THIS IS GROUNDWATER CONTAMINATION. CLEAN UP IS NOT IN PROCESS. THEY ARE STILL INVESTIGATING THE AREA."

All Materials:

Site ID:	364315
Operable Unit ID:	1122343
Operable Unit:	01
Material ID:	2111817
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

G74 **M. FINE LUMBER CO. INC.** **NY UST** **U003749710**
SW **175 VARICK AVE** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.093 mi.
493 ft. **Site 5 of 5 in cluster G**

Relative: **Lower**
Actual: **6 ft.**

UST:

Name:	M. FINE LUMBER CO. INC.
Address:	175 VARICK AVE
City,State,Zip:	BROOKLYN, NY 11237
Id/Status:	2-604641 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590526.52856
UTM Y:	4507295.42567
Site Type:	Trucking/Transportation/Fleet Operation

M. FINE LUMBER CO. INC. (Continued) **U003749710**

Affiliation Records:

Site Id:	26512
Affiliation Type:	Facility Owner
Company Name:	LOUIS FINE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	175 VARICK AVE.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 381-5200
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	26512
Affiliation Type:	Mail Contact
Company Name:	M. FINE LUMBER CO. INC.
Contact Type:	Not reported
Contact Name:	MERRITT FINE
Address1:	175 VARICK AVE.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 381-5200
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	26512
Affiliation Type:	Facility Operator
Company Name:	M. FINE LUMBER CO. INC.
Contact Type:	Not reported
Contact Name:	MERRITT FINE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 381-5200
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	26512
Affiliation Type:	Emergency Contact
Company Name:	LOUIS FINE
Contact Type:	Not reported
Contact Name:	MERRITT FINE

M. FINE LUMBER CO. INC. (Continued) **U003749710**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 381-5200
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank ID:	58432
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/2000
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

F75 **ROADWAY** **NY Spills** **S102663535**
NE **METROPOLITAN/GARDNER** **N/A**
< 1/8 **BROOKLYN, NY**
0.095 mi.
501 ft. **Site 6 of 9 in cluster F**

Relative: **Lower**

Actual: **12 ft.**

SPILLS:

Name:	ROADWAY
Address:	METROPOLITAN/GARDNER
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9706343 / 1997-08-25
Facility ID:	9706343
Facility Type:	ER

ROADWAY (Continued) **S102663535**

DER Facility ID:	89803
Site ID:	101342
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	1997-08-25
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	1997-08-25
CID:	252
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-08-25
Spill Record Last Update:	1997-08-26
Spiller Name:	GABE WEBER
Spiller Company:	ABC TRANSPORT
Spiller Address:	1 QUINBY ST
Spiller Company:	001
Contact Name:	GABE WEBER
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MARTINKAT SAME AS 9706334"
Remarks:	"DECK HOSE ON TRUCK BROKE CAUSING SPILL OF MATERIAL ON TO ROADWAY SPILL HAS BEEN CLEANED UP"

All Materials:

Site ID:	101342
Operable Unit ID:	1049711
Operable Unit:	01
Material ID:	331926
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20.00
Units:	G
Recovered:	20.00
Oxygenate:	Not reported

F76 **CON EDISON - MANHOLE 68205** **RCRA-LQG** **1014397467**
NE **GARDNER AVE AND METROPOLITAN A** **NYP004197893**
< 1/8 **BROOKLYN, NY 11211**
0.097 mi.
510 ft. **Site 7 of 9 in cluster F**

Relative: RCRA-LQG:
Lower

Date Form Received by Agency:	20100323
Handler Name:	CON EDISON - MANHOLE 68205
Handler Address:	GARDNER AVE AND METROPOLITAN A
Handler City,State,Zip:	BROOKLYN, NY 11211

Actual:
12 ft.

CON EDISON - MANHOLE 68205 (Continued) **1014397467**

EPA ID:	NYP004197893
Contact Name:	FRANKLYN MURRAY
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	212-460-2808
Contact Fax:	Not reported
Contact Email:	MURRAYFR@CONED.COM
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2009
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	4 IRVING PLACE
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner Type:	Private
Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No

CON EDISON - MANHOLE 68205 (Continued) **1014397467**

TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2009

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private
Date Became Current:	20091009
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private
Date Became Current:	20091009
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

CON EDISON - MANHOLE 68205 (Continued) **1014397467**

Historic Generators:
Receive Date: 20100323
Handler Name: CON EDISON - MANHOLE 68205
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20091009
Handler Name: CON EDISON
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 221122
NAICS Description: ELECTRIC POWER DISTRIBUTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

F77 **CON EDISON** **RCRA NonGen / NLR** **1014396346**
NE **GARDNER AVE & METROPOLITAN AVE** **NYP004186102**
< 1/8 **BROOKLYN, NY 11211**
0.097 mi.
510 ft. **Site 8 of 9 in cluster F**

Relative: **Lower**
Actual: **12 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 20160601
Handler Name: CON EDISON
Handler Address: GARDNER AVE & METROPOLITAN AVE
Handler City,State,Zip: BROOKLYN, NY 11211
EPA ID: NYP004186102
Contact Name: CAROLINE ISKANDER
Contact Address: Not reported
Contact City,State,Zip: Not reported
Contact Telephone: 718-666-4714
Contact Fax: Not reported
Contact Email: Not reported

CON EDISON (Continued) **1014396346**

Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	4 IRVING PL, RM 828
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported

CON EDISON (Continued) **1014396346**

Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160621
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20090724
Handler Name: CON EDISON	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20160601
Handler Name: CON EDISON	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

F78 **CONSOLIDATED EDISON** **NY MANIFEST** **S119073342**
NE **GARDNER AVE & METROPOLITAN AVE** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.097 mi.
510 ft. **Site 9 of 9 in cluster F**

Relative:
Lower

Actual:
12 ft.

NY MANIFEST:

Name:	CONSOLIDATED EDISON
Address:	GARDNER AVE & METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11211
Country:	USA
EPA ID:	NYP004197893
Facility Status:	Not reported
Location Address 1:	GARDNER AVE AND METROPOLITAN A
Code:	BP
Location Address 2:	VE
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11211
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004197893
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLYN MURRAY
Mailing Address 1:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124602808

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	10/09/2009
Trans1 Recv Date:	10/09/2009
Trans2 Recv Date:	10/12/2009
TSD Site Recv Date:	10/13/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004197893
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	000893912GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N

CONSOLIDATED EDISON (Continued) **S119073342**

Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	700
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

H79 **CON EDISON** **RCRA NonGen / NLR** **1012185380**
South **SCHOLES & VARICK** **NY MANIFEST** **NYP004161857**
< 1/8 **BROOKLYN, NY 11232**
0.103 mi.
543 ft. **Site 6 of 6 in cluster H**

Relative: **Lower**
Actual: **12 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20160601
Handler Name:	CON EDISON	
Handler Address:		SCHOLES & VARICK
Handler City,State,Zip:		BROOKLYN, NY 11232
EPA ID:		NYP004161857
Contact Name:		HERMAN BAKER
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		718-267-3853
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		4 IRVING PL, RM 828
Mailing City,State,Zip:		NEW YORK, NY 10003
Owner Name:		Not reported
Owner Type:		Not reported

CON EDISON (Continued) **1012185380**

Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160706
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

CON EDISON (Continued) **1012185380**

Historic Generators:
Receive Date: 20081015
Handler Name: CON EDISON
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160601
Handler Name: CON EDISON
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

NY MANIFEST:
Name: CONSOLIDATED EDISON
Address: SCHOLES & VARICK
City,State,Zip: BROOKLYN, NY 11232
Country: USA
EPA ID: NYP004161857
Facility Status: Not reported
Location Address 1: SCHOLES AND VARICK ST MH 43890
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11232
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004161857

CON EDISON (Continued) **1012185380**

Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLYN MURRAY
Mailing Address 1:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124602808

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	10/16/2008
Trans1 Recv Date:	10/16/2008
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/16/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004161857
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD077444263
TSDF ID 2:	Not reported
Manifest Tracking Number:	001433602FLE
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	100
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	B007
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported

CON EDISON (Continued) **1012185380**

Waste Code 1_5: Not reported
Waste Code 1_6: Not reported

K80 **NYC DEP** **RCRA NonGen / NLR** **1014395389**
SSE **165 STEWART AVE** **NY MANIFEST** **NYP003662772**
< 1/8 **BROOKLYN, NY 11237**
0.105 mi.
554 ft. **Site 1 of 5 in cluster K**

Relative: **Higher**
Actual: **14 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20060403
Handler Name:	NYC DEP	
Handler Address:		165 STEWART AVE
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYP003662772
Contact Name:		JOANNE NURSE
Contact Address:		JUNCTION BLVD
Contact City,State,Zip:		FLUSHING, NY 11373
Contact Telephone:		718-595-4675
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		PAA
EPA Region:		02
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		JUNCTION BLVD
Mailing City,State,Zip:		FLUSHING, NY 11373
Owner Name:		Not reported
Owner Type:		Not reported
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported

NYC DEP (Continued) **1014395389**

Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20101007
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20060403
Handler Name: NYC DEP	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

NYC DEP (Continued) **1014395389**

Evaluation Action Summary:
Evaluations: No Evaluations Found

NY MANIFEST:
Name: NYC DEP
Address: 165 STEWART AVE
City,State,Zip: BROOKLYN, NY 11237
Country: USA
EPA ID: NYP003662772
Facility Status: Not reported
Location Address 1: 165 STEWART AVENUE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11201
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP003662772
Mailing Name: NYC DEP
Mailing Contact: NYC DEP
Mailing Address 1: 96 05 HORACE HARDING EXPWY
Mailing Address 2: Not reported
Mailing City: CORONA
Mailing State: NY
Mailing Zip: 11368
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 7185954784

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2018
Trans1 State ID: NYD049178296
Trans2 State ID: Not reported
Generator Ship Date: 03/22/2006
Trans1 Recv Date: 03/22/2006
Trans2 Recv Date: Not reported
TSD Site Recv Date: 04/04/2006
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP003662772
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: CDX109000000
TSDF ID 2: Not reported
Manifest Tracking Number: NYG4454496
Import Indicator: N
Export Indicator: N
Discr Quantity Indicator: N
Discr Type Indicator: N

NYC DEP (Continued) **1014395389**

Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	120
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Waste Code:	D001
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

L81 **NEW TOWN CREEK** **NY Spills** **S104193436**
North **GRANT & STEWART ST** **N/A**
< 1/8 **QUEENS, NY**
0.115 mi.
609 ft. **Site 1 of 8 in cluster L**

Relative: **Lower**

Actual: **7 ft.**

SPILLS:

Name:	NEW TOWN CREEK
Address:	GRANT & STEWART ST
City,State,Zip:	QUEENS, NY
Spill Number/Closed Date:	9905180 / 1999-08-26
Facility ID:	9905180
Facility Type:	ER
DER Facility ID:	255019
Site ID:	316312
DEC Region:	2
Spill Cause:	Deliberate
Spill Class:	C3
SWIS:	4101
Spill Date:	1999-07-30
Investigator:	SACCACIO
Referred To:	Not reported
Reported to Dept:	1999-07-30
CID:	211
Water Affected:	NEW TOWN CREEK
Spill Source:	Commercial Vehicle
Spill Notifier:	Federal Government
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False

NEW TOWN CREEK (Continued) **S104193436**

UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1999-07-30
Spill Record Last Update:	1999-08-26
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	MARK GUITERAS
DEC Memo:	""
Remarks:	"CALLER STATES EMPLOYEE FROM WASTE MANAGEMENT WAS CLEANING TRUCK AND RUN OFF ENTERED CREEK - CALLER HAS INFORMATION OF FISH KILL AFTER OPERATION - WASTE MANAGEMENT DOES HAVE FACILTY NEAR-BY - NO CLEAN UP - SHEEN OBSERVED ON SURFACE"

All Materials:

Site ID:	316312
Operable Unit ID:	1079611
Operable Unit:	01
Material ID:	301490
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

K82 **HI TECH HOLDINGS LLC D/B/A SCHOLES STREET RECYCLIN** **NY SWRCY** **S116357461**
South **492 SCHOLES STREET** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.116 mi.
610 ft. **Site 2 of 5 in cluster K**

Relative: **Lower**

Actual: **13 ft.**

SWRCY:

Name:	HI TECH HOLDINGS LLC D/B/A SCHOLES STREET RECYCLING
Address:	492 SCHOLES STREET
City,State,Zip:	BROOKLYN, NY 11237
Region:	2
Facility Address 2:	Not reported
Phone Number:	7183865750
Owner Type:	Private
Owner Name:	Hi Tech Holdings LLC
Owner Address:	130 Varick Ave
Owner Address 2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	Not reported
Owner Phone:	7183865750
Contact Name:	Vincent C. Zambrotta
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	vinnyz@mrtcarting.com
Contact Phone:	7183865750
Activity Desc:	RHRF - registration
Activity Number:	[24MF9]

HI TECH HOLDINGS LLC D/B/A SCHOLES STREET RECYCLING (Continued) **S116357461**

Active:	Yes
East Coordinate:	590578
North Coordinate:	4507234
Accuracy Code:	Not reported
Regulatory Status:	Registration
Permit #:	24MF9
Auth. Date:	Not reported
Expiration Date:	Not reported
Waste Types:	Paper/Cardboard;Source Separated Recyclables (Metal/Glass/Paper/Plastic);Commingled Paper;Metals (Ferrous);Metals (Non-Ferrous);Plastics
Operator Name:	Vincent Zambrotta
Operator Type:	Private
Last Date:	10/26/2016

K83 **HI-TECH RESOURCE RECOVERY INC** **NY UST** **U003740150**
South **492 SCHOLES STREET** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.116 mi.
610 ft. **Site 3 of 5 in cluster K**

Relative:
Lower

Actual:
13 ft.

UST:

Name:	HI-TECH RESOURCE RECOVERY INC
Address:	492 SCHOLES STREET
City,State,Zip:	BROOKLYN, NY 11237
Id/Status:	2-604389 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590604.00257
UTM Y:	4507234.02097
Site Type:	Other

Affiliation Records:

Site Id:	26263
Affiliation Type:	Facility Owner
Company Name:	HI-TECH RESOURCE RECOVERY INC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	130 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 386-5750
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	26263
Affiliation Type:	Mail Contact
Company Name:	HI-TECH RESOURCE RECOVERY INC
Contact Type:	Not reported
Contact Name:	MR. VINCENT ZAMBROTTA
Address1:	130 VARICK AVENUE

HI-TECH RESOURCE RECOVERY INC (Continued) **U003740150**

Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 386-5750
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	26263
Affiliation Type:	Facility Operator
Company Name:	HI-TECH RESOURCE RECOVERY INC
Contact Type:	Not reported
Contact Name:	VINCENT ZAMBROTTA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 386-5750
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	26263
Affiliation Type:	Emergency Contact
Company Name:	HI-TECH RESOURCE RECOVERY INC
Contact Type:	Not reported
Contact Name:	VINCENT ZAMBROTTA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 386-5750
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	133R
Tank ID:	57549
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	2000
Install Date:	Not reported
Date Tank Closed:	11/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel

HI-TECH RESOURCE RECOVERY INC (Continued) **U003740150**

Material Code: ZZZZ
Common Name of Substance: Invalid Material - Please Fix

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

J00 - Dispenser - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number: 264Y
Tank ID: 57548
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 2000
Install Date: Not reported
Date Tank Closed: 11/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: ZZZZ
Common Name of Substance: Invalid Material - Please Fix

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

J00 - Dispenser - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number: 480J
Tank ID: 57551
Tank Status: Closed - In Place
Material Name: Closed - In Place

HI-TECH RESOURCE RECOVERY INC (Continued) **U003740150**

Capacity Gallons:	2000
Install Date:	Not reported
Date Tank Closed:	11/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	ZZZZ
Common Name of Substance:	Invalid Material - Please Fix
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

J00 - Dispenser - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number:	681K
Tank ID:	57550
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	2000
Install Date:	Not reported
Date Tank Closed:	11/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	ZZZZ
Common Name of Substance:	Invalid Material - Please Fix
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

J00 - Dispenser - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

K84 **SYNTHETIC PROTECTIVE COATING CO INC** **RCRA NonGen / NLR** **1000409321**
South **492 SCHOLES ST** **FINDS** **NYD001282631**
< 1/8 **BROOKLYN, NY 11237** **ECHO**
0.116 mi. **NY MANIFEST**
610 ft. **Site 4 of 5 in cluster K**

Relative: **Lower**
Actual: **13 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20070101
Handler Name:	SYNTHETIC PROTECTIVE COATING CO INC
Handler Address:	492 SCHOLES ST
Handler City,State,Zip:	BROOKLYN, NY 11237-1023
EPA ID:	NYD001282631
Contact Name:	Not reported
Contact Address:	SCHOLES ST
Contact City,State,Zip:	BROOKLYN, NY 11237
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	SCHOLES ST
Mailing City,State,Zip:	BROOKLYN, NY 11237
Owner Name:	SYNTHETIC PROTECTIVE COATING CO INC
Owner Type:	Private
Operator Name:	SYNTHETIC PROTECTIVE COATING CO INC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

SYNTHETIC PROTECTIVE COATING CO INC (Continued) **1000409321**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SYNTHETIC PROTECTIVE COATING CO INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999

SYNTHETIC PROTECTIVE COATING CO INC (Continued) **1000409321**

Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: SYNTHETIC PROTECTIVE COATING CO INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SYNTHETIC PROTECTIVE COATING CO INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19990708
Handler Name: SYNTHETIC PROTECTIVE COATING CO INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: SYNTHETIC PROTECTIVE COATING CO INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101

SYNTHETIC PROTECTIVE COATING CO INC (Continued) **1000409321**

Handler Name: SYNTHETIC PROTECTIVE COATING CO INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19830302
Handler Name: SYNTHETIC PROTECTIVE COATING CO INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported

SYNTHETIC PROTECTIVE COATING CO INC (Continued) **1000409321**

SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19881123
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYDEC
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:

Registry ID: 110004333285

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000409321
Registry ID:	110004333285
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110004333285
Name:	SYNTHETIC PROTECTIVE COATING CO INC
Address:	492 SCHOLES ST
City,State,Zip:	BROOKLYN, NY 11237

NY MANIFEST:

Name:	SYNTHETIC PROTECTIVE COATING
Address:	492 SCHOLES ST
City,State,Zip:	BROOKLYN, NY 11237-1023
Country:	USA
EPA ID:	NYD001282631
Facility Status:	Not reported

SYNTHETIC PROTECTIVE COATING CO INC (Continued) **1000409321**

Location Address 1:	492 SCHOLES ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD001282631
Mailing Name:	SYNTHETIC PROTECTIVE COATING
Mailing Contact:	SYNTHETIC PROTECTIVE COATING
Mailing Address 1:	492 SCHOLES STREET
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	0000000000

Name:	SYNTHETIC PROTECTIVE COATING CO
Address:	492 SCHOLES ST
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP000776369
Facility Status:	Not reported
Location Address 1:	492 SCHOLES ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP000776369
Mailing Name:	SYNTHETIC PROTECTIVE COATING CO
Mailing Contact:	SYNTHETIC PROTECTIVE COATING CO
Mailing Address 1:	492 SCHOLES STREET
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7183662200

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

K85 **CASILINO CONTRACTING** **NY Spills** **S102663427**
SE **160 STEWART AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.116 mi.
613 ft. **Site 5 of 5 in cluster K**

Relative:
Higher

Actual:
14 ft.

SPILLS:

Name:	CASILINO CONTRACTING
Address:	160 STEWART AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9705382 / 1997-08-04
Facility ID:	9705382
Facility Type:	ER
DER Facility ID:	191167
Site ID:	231976
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	1997-08-04
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	1997-08-04
CID:	266
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-08-04
Spill Record Last Update:	2003-02-18
Spiller Name:	PETER LEPORE
Spiller Company:	WHALECO FUEL OIL
Spiller Address:	1 COFFEY STREET
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG "
Remarks:	"BROKEN COULING ON DECK HOSE. ONTO ROAADWAY AND SIDEWALK. HOSE BEING REPAIRED. BEING CLEANED UP."

All Materials:

Site ID:	231976
Operable Unit ID:	1048645
Operable Unit:	01
Material ID:	334598
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15.00
Units:	G
Recovered:	15.00
Oxygenate:	Not reported

CASILINO CONTRACTING (Continued) **S102663427**

Name:	CASALINO
Address:	160 STEWART ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9706947 / 1997-11-13
Facility ID:	9706947
Facility Type:	ER
DER Facility ID:	102303
Site ID:	117602
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	1997-09-11
Investigator:	LUCE
Referred To:	Not reported
Reported to Dept:	1997-09-11
CID:	257
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-09-11
Spill Record Last Update:	1997-11-13
Spiller Name:	PETER LETORE
Spiller Company:	WHALECO
Spiller Address:	5560 58TH ST
Spiller Company:	001
Contact Name:	NONE
DEC Memo:	""
Remarks:	"DECK HOSE BROKE SPILL ALREADY CLEANED UP "

All Materials:

Site ID:	117602
Operable Unit ID:	1050305
Operable Unit:	01
Material ID:	332529
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	5.00
Oxygenate:	Not reported

J86 **CONSOLIDATED CARPET** **NY LTANKS** **S102619094**
NNW **1157 GRAND ST** **N/A**
< 1/8 **BROOKLYN, NY**
0.117 mi.
617 ft. **Site 2 of 5 in cluster J**

Relative: **Lower**
Actual: **4 ft.**

LTANKS:

Name:	CONSOLIDATED CARPET
Address:	1157 GRAND ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9511303 / 2006-02-07
Facility ID:	9511303
Site ID:	193820
Spill Date:	1995-12-07
Spill Cause:	Tank Test Failure
Spill Source:	Non Major Facility > 1,100 gal
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	ADZHITOM
Referred To:	INVESTIGATION/DELINEATION
Reported to Dept:	1995-12-07
CID:	323
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1995-12-07
Spill Record Last Update:	2006-02-07
Spiller Name:	STEVEN SACCHINELLI
Spiller Company:	CONSOLIDATED CARPET
Spiller Address:	1157 GRAND ST
Spiller County:	001
Spiller Contact:	STEVEN SACCHINELLI
Spiller Phone:	(718) 456-8207
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	161550
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL This spill was reassigned from DEC Sigona to Rommel on January 7, On Thursday January 25, 1996, Dave Pulvermiller of MTS Environserve called A.Sigona and informed that the 550 gallon UST which failed a tank test would be removed along with two other 550 gallon gasoline USTs. They would be taking samples and doing a site assessment during the tank removal. The tanks will be registered and will submit a substantial modification application. The tanks will be removed the week of January 29, 1996, and DEC Sigona is planning to view the excavations on Tuesday January 30, 1996 at 3:30 PM. The consultant plans to sample and test using EPA method 8020. 3/10/05 - Received Phase II Investigation Report from Laurel Environmental. Re-assigned to Zhitomirsky for followup. - KST 4/25/2005 I left a message for Carla Sullivan.AZ 4/27/2005 Conversation with Carla Sullivan (Laurel Environmental). They plan to excavate contaminated soil and take post excavation samples. I requested to take groundwater samples if gorundwater is encountered. GWT is 10' below the grade. The tank was located at 1181 Grand Street.This is a

CONSOLIDATED CARPET (Continued) **S102619094**

warehouse. They will submit a report in June 2005. AZ 7-27-2005 Laurel Environmental informed DEC that they will remove contaminated soils and apply ORC into the exposed groundwater during the week of August 1, 2005. AZ 10/14/2005 I reviewed Soil Removal Report for this spill. A letter was sent to Laurel Env. with my comments. The letter stated that the following deficiencies were noticed in the report: 1. Post excavation soil samples were not taken 2. The site plan was not drawn to scale 3. Groundwater flow direction was not indicated on the plan 4. Well design diagrams were not submitted 5. Soil samples were not collected and screened during well installation. The report stated that analytical results of groundwater samples collected during this investigation indicate minor exceedances of State water quality standards in samples collected from wells MW-1and MW-2. Laurel Environmental recommended no further action with respect to the removed USTs. The Department could not approve no further action at this time. In consultation with J. Kolleeny it was decided that an additional monitoring well should be installed near the excavated area. Soil samples should be collected during well installation and analyzed in a laboratory. Groundwater at the site should be monitored and sampled again three months after the recent samples were taken. Laboratory data should be provided for all compounds analyzed by EPA Method 8021 plus MTBE, and the results compared to State guidelines. These recommendations were mailed to Laurel Env. AZ 1/17/2006 Additional investigation/delineation is pending. Field work has been done. AZ 2/7/2006 I have reviewed a report by Laurel Environmental Assosiates (LEA). The report states that LEA installed 3 one-inch groundwater monitoring wells. On December 16, 2005, LEA purged and sampled the wells. Laboratory analysis inicates that with the exception of a slight exceedance of m and p xylenes and total xylenes at 7 ppb in MW-2, the concentrations of VOCs are below NYSDEC ambient groundwater criteria. According to the report, the tank and contaminated soil have been removed and groundwater treated in-situ. Based on this information the spill is closed. This spill case was discussed with Koon Tang on 1/23/2006 and he concurred with this decision. AZ"

Remarks: "TEST METHOD NDE MODEL 1000, UNKNOWN LEAK RATE."

All TTF:

Facility ID:	9511303
Spill Number:	9511303
Spill Tank Test:	1544300
Site ID:	193820
Tank Number:	1
Tank Size:	550
Material:	0009
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

CONSOLIDATED CARPET (Continued) **S102619094**

Site ID:	193820
Operable Unit ID:	1021843
Operable Unit:	01
Material ID:	358651
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

J87 **ULTIMATE TRUCK & EQUIPMENT** **RCRA-VSQG** **1023678946**
NNW **1157 GRAND ST** **NYN008029019**
< 1/8 **BROOKLYN, NY 11211**
0.117 mi.
617 ft. **Site 3 of 5 in cluster J**

Relative: **Lower**
Actual: **4 ft.**

RCRA-VSQG:

Date Form Received by Agency:	20170315
Handler Name:	ULTIMATE TRUCK & EQUIPMENT
Handler Address:	1157 GRAND ST
Handler City,State,Zip:	BROOKLYN, NY 11211
EPA ID:	NYN008029019
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Not reported
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	GRAND ST
Mailing City,State,Zip:	BROOKLYN, NY 11211
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20170315
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20170315
Handler Name:	ULTIMATE TRUCK & EQUIPMENT
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Used Oil - Generators
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Used Oil - Generators
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Used Oil - Generators
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Used Oil - Generators
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Used Oil - Generators
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Listing - General
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Used Oil - Generators
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20170307
Actual Return to Compliance Date: 20180620
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170316

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20180620
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYSC
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20170307
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYSC
Evaluation Responsible Sub-Organization: R2
Actual Return to Compliance Date: 20180620
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20170307
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYSC
Evaluation Responsible Sub-Organization: R2
Actual Return to Compliance Date: 20180620
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20170307
Evaluation Responsible Agency: State

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYSC
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20180620
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYSC
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20180620
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYSC
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20180620
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYSC
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20180620
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYSC
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20180620

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYSC
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20180620
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYSC
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20180620
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYSC
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20180620
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYSC
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20180620
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ULTIMATE TRUCK & EQUIPMENT (Continued) **1023678946**

Evaluation Date:	20170307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYSC
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20180620
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYSC
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20180620
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYSC
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20180620
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

J88 **ULTIMATE TRUCK & EQUIPMENT** **NY AST** **A100433679**
NNW **1157 GRAND STREET** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.117 mi.
617 ft. **Site 4 of 5 in cluster J**

Relative: AST:
Lower

Actual:
4 ft.

Name:	ULTIMATE TRUCK & EQUIPMENT
Address:	1157 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11211
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-612699
Program Type:	PBS
UTM X:	Not reported
UTM Y:	Not reported
Expiration Date:	04/19/2022

ULTIMATE TRUCK & EQUIPMENT (Continued) **A100433679**

Site Type: Auto Service/Repair (No Gasoline Sales)

Affiliation Records:

Site Id: 545607
Affiliation Type: Facility Owner
Company Name: JOSEPH GOLDBERGER
Contact Type: MEMBER
Contact Name: JOSEPH GOLDBERGER
Address1: 85 N. LORNA LANE
Address2: Not reported
City: SUFFERN
State: NY
Zip Code: 10901
Country Code: 001
Phone: (718) 599-1119 120
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2017-04-19

Site Id: 545607
Affiliation Type: Mail Contact
Company Name: ULTIMATE TRUCK & EQUIPMENT
Contact Type: Not reported
Contact Name: JOSEPH GOLDBERGER
Address1: 1157 GRAND STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11211
Country Code: 001
Phone: (718) 599-1119 120
EMail: JOEY@ULTITRUCK.COM
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2017-04-19

Site Id: 545607
Affiliation Type: Facility Operator
Company Name: ULTIMATE TRUCK & EQUIPMENT
Contact Type: Not reported
Contact Name: ELI GOLDBERGER
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 599-1119
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2017-04-19

Site Id: 545607
Affiliation Type: Emergency Contact
Company Name: JOSEPH GOLDBERGER
Contact Type: Not reported

ULTIMATE TRUCK & EQUIPMENT (Continued) **A100433679**

Contact Name:	Not reported
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 681-8061
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2017-04-19

Tank Info:

Tank Number:	001
Tank Id:	267498

Equipment Records:

J00 - Dispenser - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
I01 - Overfill - Float Vent Valve
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/2010
Capacity Gallons:	275
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DAFRANCI
Last Modified:	04/19/2017
Material Name:	waste oil/used oil

J89 **ULTIMATE TRUCK & EQUIPMENT** **NY Spills** **S120701231**
NNW **1157 GRAND STREET** **N/A**
< 1/8 **BROOKLYN, NY**
0.117 mi.
617 ft. **Site 5 of 5 in cluster J**

Relative: SPILLS:
Lower

Name:	ULTIMATE TRUCK & EQUIPMENT
Address:	1157 GRAND STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1611187 / 2017-07-24

Actual:
4 ft.

ULTIMATE TRUCK & EQUIPMENT (Continued) **S120701231**

Facility ID:	1611187
Facility Type:	ER
DER Facility ID:	495776
Site ID:	542056
DEC Region:	2
Spill Cause:	Housekeeping
Spill Class:	C3
SWIS:	2401
Spill Date:	2017-03-07
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	2017-03-13
CID:	Not reported
Water Affected:	NEWTOWN CREEK
Spill Source:	Commercial/Industrial
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2017-03-13
Spill Record Last Update:	2017-07-24
Spiller Name:	Eli Goldberger
Spiller Company:	Ultimate Truck & Equipment
Spiller Address:	1157 Grand Street
Spiller Company:	999
Contact Name:	JOEY GOLDBERGER
DEC Memo:	"Inspection findings forwarded to OGC (Mintzer). Owner's son (Eli) was advised of findings and given direction to clean affected areas and prevent further discharges by modifying housekeeping activities. Unregister 275 waste oil tank in service - no labeling, color coding or inspection records. 7/20/17 TJD Site inspection. Met onsite with owner (Joey). The zipper drains have been cleaned of residual product. Oil water separator has been serviced (Saftey Clean) and is now operating as designed. General housekeeping of shop area is improved. Owner is in the process of loading debris from rear storage yard into a roll-off container for offsite recycling/disposal. Bulkhead remains in poor condition - owner states he is obtaining quotes for repair and/or replacement. DeMeo spoke at length with owner regarding pollution prevention and best management practices. 275 Waste oil tank is properly labeled and color coded - secondary containment beneath AST has been cleaned. No further requirements from the R2 Spills program. Outstanding violations to be addressed by other DEC programs. Spill closed."
Remarks:	"Multi-program inspection performed due to recent complaint from Riverkeeper. Housekeeping issues with resultant petroleum discharges identified as follows: 1) Petroleum discharge to interior zipper/trench drain interior to the structure discharging to a poorly maintained oil water separator with ultimate discharge to NYC sewer system (not known at this time if sewer is storm, sanitary or combined) 2) Oil drip pan (estimated 5 gallon capacity) was found overturned in rear of property, adjacent to Newtown Creek, with visible petroleum impacts to surrounding debris, vegetation and soil. 3) Oil residue and stained concrete surrounding and within secondary containment of unregistered Waste Oil 275 AST 4) Various housekeeping

ULTIMATE TRUCK & EQUIPMENT (Continued) **S120701231**

issues throughout facility with visible petroleum staining and/or accumulation noted both interior and exterior to structure with visible rainbow sheens emanating from spilled petroleum products at time of inspection"

All Materials:

Site ID:	542056
Operable Unit ID:	1290593
Operable Unit:	01
Material ID:	2296450
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

M90 **CON EDISON** **NY MANIFEST** **S117738642**
South **FRONT OF 140 VARICK AV** **N/A**
< 1/8 **BROOKLYN, NY 11237**
0.118 mi.
625 ft. **Site 1 of 13 in cluster M**

Relative:
Lower

Actual:
12 ft.

NY MANIFEST:

Name:	CON EDISON
Address:	FRONT OF 140 VARICK AV
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP004717112
Facility Status:	Not reported
Location Address 1:	FRONT OF 140 VARICK AV
Code:	BP
Location Address 2:	SB43891
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004717112
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported

CON EDISON (Continued) **S117738642**

seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	01/21/2015
Trans1 Recv Date:	01/21/2015
Trans2 Recv Date:	01/26/2015
TSD Site Recv Date:	01/26/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004717112
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002620053GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	50
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

I91 **CON EDISON - MANHOLE 36370** **RCRA-LQG** **1016450605**
NW **1131 GRAND STREET** **NY MANIFEST** **NYP004296299**
< 1/8 **BROOKLYN, NY 11211**
0.123 mi.
649 ft. **Site 4 of 12 in cluster I**

Relative: RCRA-LQG:
Lower

Date Form Received by Agency:	20140327
Handler Name:	CON EDISON - MANHOLE 36370
Handler Address:	1131 GRAND STREET
Handler City,State,Zip:	BROOKLYN, NY 11211

Actual:
5 ft.

CON EDISON - MANHOLE 36370 (Continued) **1016450605**

EPA ID:	NYP004296299
Contact Name:	DENNIS HUACON
Contact Address:	IRVING PLACE, 15TH FL NE
Contact City,State,Zip:	NEW YORK, NY 10003
Contact Telephone:	212-460-2757
Contact Fax:	401-765-1500
Contact Email:	HUACOND@CONED.COM
Contact Title:	ASSOCIATE SCIENTIST
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2013
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	IRVING PLACE, 15TH FL NE
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner Type:	Private
Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No

CON EDISON - MANHOLE 36370 (Continued) **1016450605**

TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2013

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private
Date Became Current:	20130326
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private
Date Became Current:	20130326
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

CON EDISON - MANHOLE 36370 (Continued) **1016450605**

Historic Generators:

Receive Date:	20140327
Handler Name:	CON EDISON - MANHOLE 36370
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20130326
Handler Name:	CON EDISON MANHOLE: 36370
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20130426
Handler Name:	CON EDISON MANHOLE: 36370
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	221122
NAICS Description:	ELECTRIC POWER DISTRIBUTION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

NY MANIFEST:

Name:	CON EDISON
Address:	1131 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211

CON EDISON - MANHOLE 36370 (Continued) **1016450605**

Country:	USA
EPA ID:	NYP004296299
Facility Status:	Not reported
Location Address 1:	1131 GRAND STREET
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11211
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004296299
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE - 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	03/26/2013
Trans1 Recv Date:	03/26/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/26/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004296299
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002017253GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported

CON EDISON - MANHOLE 36370 (Continued) **1016450605**

Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1200
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

I92 **1131 GRAND ET IAC** **NY UST** **U003178587**
NW **1131 GRAND STREET** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.123 mi.
649 ft. **Site 5 of 12 in cluster I**

Relative: **Lower**
Actual: **5 ft.**

UST:

Name:	1131 GRAND ET IAC
Address:	1131 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11211
Id/Status:	2-603035 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590394.22702
UTM Y:	4507588.38256
Site Type:	Other

Affiliation Records:

Site Id:	24989
Affiliation Type:	Facility Owner
Company Name:	RICHARD LEE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	374 MELROSE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 417-0016
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	24989
Affiliation Type:	Mail Contact
Company Name:	BO BO POULTRY INC

1131 GRAND ET IAC (Continued) **U003178587**

Contact Type:	Not reported
Contact Name:	Not reported
Address1:	324 MELROSE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 417-0016
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	24989
Affiliation Type:	Facility Operator
Company Name:	1131 GRAND ET IAC
Contact Type:	Not reported
Contact Name:	RICHARD LEE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 417-0016
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	24989
Affiliation Type:	Emergency Contact
Company Name:	RICHARD LEE
Contact Type:	Not reported
Contact Name:	RICHARD LEE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 417-0016
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank ID:	52736
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	7500
Install Date:	Not reported
Date Tank Closed:	06/01/1997

1131 GRAND ET IAC (Continued) **U003178587**

Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

F00 - Pipe External Protection - None
I05 - Overfill - Vent Whistle
H00 - Tank Leak Detection - None
C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron

I93 **MANHOLE 1299** **NY Spills** **S106969136**
NW **1131 GRAND ST** **N/A**
< 1/8 **BROOKLYN, NY**
0.123 mi.
649 ft. **Site 6 of 12 in cluster I**

Relative: **Lower**

Actual: **5 ft.**

SPILLS:

Name:	MANHOLE 1299
Address:	1131 GRAND ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0503634 / 2005-08-31
Facility ID:	0503634
Facility Type:	ER
DER Facility ID:	294628
Site ID:	348262
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	2401
Spill Date:	2005-06-27
Investigator:	SKARAKHA
Referred To:	Not reported
Reported to Dept:	2005-06-27
CID:	77
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2005-06-27

MANHOLE 1299 (Continued) **S106969136**

Spill Record Last Update:	2005-08-31
Spiller Name:	ERT DESK
Spiller Company:	CON EDISON 151710
Spiller Address:	128 WEST AVE
Spiller Company:	001
Contact Name:	ERT DESK
DEC Memo:	"e2mis no 159434 J. IOCCO REPORTS FINDING APPROX 1/2 GAL OF DIELECTRIC FLUID THAT LEAKED FROM THE BOTTOM OF THE TRANSFORMER IN TM1299 ONTO APPROX 30 GALS OF WATER. SPILL IS CONTAINED TO THE STRUCTURE. NO SEWERS OR WATERWAYS AFFECTED. NO MOVEMENT IN THE WATER. CANNOT VERIFY THE EXISTENCE OF ANY SEWER CONNECTIONS, SUMPS OR DRAINS. WHILE CLEANING THE STRUCTURE, MR. IOCCO INADVERTANTLY SUCKED UP SOME OF THE OIL INTO VACTOR # 60766. HE WILL FINISH THE CLEANUP AND THE VEHICLE WILL REMAIN ON LOC PENDING LAB RESULT. TAG # 46462 PLACED IN STRUCTURE. PCB SAMPLE TAKEN. BQE WILL SEND OUT A CREW TO PRESSURE TEST THE TRANSFORMER. HISTORICAL PCB COUNT OF TRANSFORMER IS 22 PPM DTD 4/1/94. TAG WILL REMAIN IN STRUCTURE PENDING LAB RESULT. UPDATE: 6/27/05 - 1130. FDR # FOR TM1299 IS SD3143. AS PER SHIFT MGR M. CARUSO, UNIT WAS PRESSURE TESTED BY BQE AND HELD PRESSURE. #9 O.S. M. ROTONDI FEELS OIL IN STRUCTURE IS MOTOR OIL. TJ - 50495 LAB RESULT RECEIVED 6/27/05 - 1512. 05-06177. 31 PPM. TJ - 50495 UPDATE - 6/27/05 - 2000HRS. S. ADEDAPO REPORTS DOUBLE WASHED STRUCTURE WITH 760 BIOGEN. REMOVED ALL LIQUIDS AND DEBRIS WITH VACTOR. NO LEAKING CO. EQUIPMENT FOUND. ENV. STOP TAG REMAINS IN PLACE PENDING TRANSFORMER REMOVAL. CN#19661 Update - 6/29/05 0900hrs. This is to clarify the status of this incident. As per G. Palladino to D. Hearns he is reporting that unit is not leaking but will be replaced on outage. Tag remains in place pending transformer removal. cn#19661 6/30/05 1330HRS O.S. C.LABARBARA ENVIR OPPS REPORTS NETW REMOVED AND REPLACED UNIT .#9 TIEING BACK UNIT.REMOVED ENVIR TAG# 46462. G DONATONE UPDATE 6/30/2005 14:30 HRS... PER OS C. LABARBARA ON 6/29 AFTER THE UNIT WAS REMOVED, ENVIRONMENTAL OPS EMPLOYEE GUY CASTRO WASHED THE STRUCTURE, THE STRUCTURE WAS COMPLETELY CLEAN..... E.VESCE. Closed. 8-31-05. GB "
Remarks:	"1/2 GAL OF DIELECTRIC FLUID DUE TO EQUIPMENT FAILURE OF TRANSFORMER. CLEAN-UP PENDING DE-ENERGIZING OF FEEDER. REF # 159434"

All Materials:

Site ID:	348262
Operable Unit ID:	1105920
Operable Unit:	01
Material ID:	1968415
Material Code:	0541A
Material Name:	dielectric fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

I94 **VAULT 2597** **NY Spills** **S102150597**
WNW **METROPOLITAN AV** **N/A**
< 1/8 **BROOKLYN, NY**
0.124 mi.
655 ft. **Site 7 of 12 in cluster I**

Relative: **Lower**

Actual: **0 ft.**

SPILLS:

Name:	VAULT 2597
Address:	METROPOLITAN AV
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0312422 / 2004-07-15
Facility ID:	0312422
Facility Type:	ER
DER Facility ID:	242317
Site ID:	299538
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	2401
Spill Date:	2004-02-08
Investigator:	SKARAKHA
Referred To:	Not reported
Reported to Dept:	2004-02-08
CID:	41
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2004-02-08
Spill Record Last Update:	2004-07-15
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	ERT
DEC Memo:	"FEB 8 2004 09:59 Hrs B/Q NETWKS. DEPT. SPLICER R.CILENTO EMP# 44214 REPORTS: WHILE PASSING LOCATION NOTICED STEAM COMEING FROM V2597 (FEEDER # 6B57) FOUND: APPROX. 10 GAL'S OF UNKNOWN OIL ON APPROX. 800 GAL'S OF WATER. SPILL APPEARS TO BE CONTAINED AT THIS TIME. NO SEWERS OR WATERWAYS APPEAR TO BE AFFECTED. NO KNOWN SUMP OR PUMP PRESENT. NO KNOWN SEWER CONNECTION PRESENT. LIQ. SAMPLE TAKEN FROM SPILL & MARKED PRIORITY E CHAIN OF CUSTODY# DD-08255. CLEANUP PENDING TEST RESULTS. INITIAL CLEANUP BEING DONE AS 50-499. UNIT CANNOT BE PRESSURE TESTED AT THIS TIME, DUE TO THE QUANTITY OF WATER IN STRUCTURE. UPDATE 08-FEB-2004 11:00 HRS. UNIT HISTORICAL DATA: SERIAL# F124431, CLASS CODE-GU8, MFG CODE-GE, INSTALL DATE 1/1/65, HIST. PCB RESULTS- 11/8/02 - 9PPM. OIL CAPACITY FOR V-2597=295 GALLONS. THIS VAULT PREVIOUSLY LISTED IN OPEN INCIDENT # 148227. SEE 148227 FOR DETAILS. EPA# NYP 004 117 834 Update 2/9/04 Estimated amount is 35 gals unknown petroleum. No sewer or waterway affected. ENVIR. OPER. MECH-A P.ROSADO EMP# 82008 REPORTS: DBL WASHED STRUCTURE WITH BIO-GEN 760. ASTORIA TANKER REMOVED ALL LIQUIDS FROM UNIT & STRUCTURE. ENVIR.TAG LEFT IN PLACE PENDING UNIT REMOVAL. PRELIMINARY CLEANUP IS COMPLETE AT THIS TIME. Vault #2597 Inc# 152016 all liquids were removed,

VAULT 2597 (Continued) **S102150597**

partially cleaned, and double washed; weep holes were sealed with cement on the east side of the structure that connected to VS-1433; stop tag remains in place for Vaults 2597,and 1856. W. Eckstein, env. ops mech reports as of this time partially cleaned structures so that asbestos abatement could be done this date (3/11/04). 3/11/04 2000 HRS S.ASFOUR NETW REPORTS ASBESTOS ABATEMENT IS COMPLETE IN V2597. update 3-25-04 05:40hrs k. hufford reports, double washed structure again and left tag in place. UPDATE - 3/25/04 - 10HRS Steve Asfour Netw reports asbestos abatement was done in V1856. Secondary gap has been cut and the asbestos shells have been removed. Transformer is ready to be removed from structure. Clean up can be completed when unit is removed. 4/19/04 1850 HRS LIPORI REPORTS CLEANUP COMPLETED DOULBED WASHED STRUCTURE USING BIO GEN 760 .REMOVED ENVIR TAG#33636 . BOTH UNITS ARE REMOVED INCIDENT CLOSED."

Remarks: "UNKNOWN PETROLEUM IN TRANSFORMER VAULT. NO SEWERS OR WATERWAYS. NO SMOKE OR FIRE. NO VISIBLE OIL. NO CRACKS IN STRUCTURE. EAST OF RIVER STREET"

All Materials:

Site ID:	299538
Operable Unit ID:	879878
Operable Unit:	01
Material ID:	497630
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	BQE E/B &
Address:	METROPOLITAN AV
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9702070 / 2003-02-24
Facility ID:	9702070
Facility Type:	ER
DER Facility ID:	242317
Site ID:	299539
DEC Region:	2
Spill Cause:	Traffic Accident
Spill Class:	C4
SWIS:	2401
Spill Date:	1997-05-17
Investigator:	GUTIERREZ
Referred To:	Not reported
Reported to Dept:	1997-05-17
CID:	297
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False

VAULT 2597 (Continued) **S102150597**

Remediation Phase:	0
Date Entered In Computer:	1997-05-17
Spill Record Last Update:	2003-02-24
Spiller Name:	DONALD ULMER
Spiller Company:	F & T DISTRIBUTORS
Spiller Address:	70 PETERSBURG RD
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"TRACTOR HIT AN OBJECT IN THE ROAD AND IT RUPTURED THE TANK - SPILL HAS BEEN CONTAINED AND SAND WAS APPLIED TO THE SPILL BY NYC DOT"

All Materials:

Site ID:	299539
Operable Unit ID:	1047996
Operable Unit:	01
Material ID:	335004
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	NEWTON CREEK REG #B7
Address:	METROPOLITAN AV
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9710120 / 1997-12-05
Facility ID:	9710120
Facility Type:	ER
DER Facility ID:	242317
Site ID:	299540
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	D4
SWIS:	2401
Spill Date:	1997-12-02
Investigator:	CAENGELH
Referred To:	Not reported
Reported to Dept:	1997-12-02
CID:	365
Water Affected:	LOWER NY BAY
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-12-02
Spill Record Last Update:	1997-12-05
Spiller Name:	RUSS BETTERS
Spiller Company:	NYC DEP
Spiller Address:	RT42

VAULT 2597 (Continued) **S102150597**

Spiller Company: 001
Contact Name: JIM DALY
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ENGELHARDT Referred to Brian Mitchell - Water Unit."
Remarks: "REGULATOR GADGE CLOSED BY ITSELF CAUSING SPILL OF .010305 MILLION GALLONS INTO THE LOWER NY BAY. CREW OPENED GATE & IT OKAY NOW."

All Materials:
Site ID: 299540
Operable Unit ID: 1056499
Operable Unit: 01
Material ID: 328438
Material Code: 0062A
Material Name: raw sewage
Case No.: Not reported
Material FA: Other
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

I95 **NEWTOWN CREEK** **NY Spills** **S104952192**
WNW **METROPOLITAN BRIDGE** **N/A**
< 1/8 **BROOKLYN, NY**
0.124 mi.
655 ft. **Site 8 of 12 in cluster I**

Relative: **Lower**
Actual: **0 ft.**

SPILLS:
Name: NEWTOWN CREEK
Address: METROPOLITAN BRIDGE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 0011304 / 2003-12-23
Facility ID: 0011304
Facility Type: ER
DER Facility ID: 222873
Site ID: 274022
DEC Region: 2
Spill Cause: Unknown
Spill Class: C3
SWIS: 2401
Spill Date: 2001-01-17
Investigator: JMROMMEL
Referred To: Not reported
Reported to Dept: 2001-01-17
CID: 257
Water Affected: NEW TOWN CREEK
Spill Source: Unknown
Spill Notifier: Federal Government
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2001-01-17
Spill Record Last Update: 2003-12-23
Spiller Name: DENNIS FIRPO

NEWTOWN CREEK (Continued) **S104952192**

Spiller Company:	PREMIUM OIL
Spiller Address:	1188 METROPOLITAN AV
Spiller Company:	001
Contact Name:	CHAD DAVIDSON
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL See also 0011310 1188 Metropolitan - pipe on truck broke, #4 fuel oil entered storm drain and Newtown Creek. "
Remarks:	"sheen in water"

All Materials:

Site ID:	274022
Operable Unit ID:	833361
Operable Unit:	01
Material ID:	541624
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

I96 **MANHOLE #36370** **NY Spills** **S104194308**
WNW **GRAND ST/METROPOLITAN AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.124 mi.
655 ft. **Site 9 of 12 in cluster I**

Relative: **Lower**

Actual: **0 ft.**

SPILLS:

Name:	MANHOLE #36370
Address:	GRAND ST/METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9906205 / 1999-11-10
Facility ID:	9906205
Facility Type:	ER
DER Facility ID:	195318
Site ID:	237077
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	2401
Spill Date:	1999-08-24
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	1999-08-24
CID:	281
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1999-08-24

MANHOLE #36370 (Continued) **S104194308**

Spill Record Last Update:	2000-06-01
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	BILL MURPHY
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL Con ed e2mis notes: Approx 3-quarts of unknown oil on 1200 gallons of water in MH-36370. Took 1-sample. lsn#99-08878 <1ppm, cleanup complete and tag removed. Incident is closed. "
Remarks:	"APPROX. 3 QUARTS OF ABOVE MATERIAL DISCOVERED ONTOP OF 1200 GALLONS OF WATER AT ABOVE LOCATION. CLEAN UP PENDING TEST RESULTS. CON ED # 127391. NO CALL BACK REQUESTED."

All Materials:

Site ID:	237077
Operable Unit ID:	1080645
Operable Unit:	01
Material ID:	302473
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

I97 **METROPOLITAIN AVE & GRAND** **NY Spills** **S102663534**
WNW **METROPOLITAIN AVE & GRAND** **N/A**
< 1/8 **BROOKLYN, NY**
0.124 mi.
655 ft. **Site 10 of 12 in cluster I**

Relative:
Lower

Actual:
0 ft.

SPILLS:

Name:	METROPOLITAIN AVE & GRAND
Address:	METROPOLITAIN AVE & GRAND
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9706334 / 1997-08-25
Facility ID:	9706334
Facility Type:	ER
DER Facility ID:	259651
Site ID:	322309
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	1997-08-25
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	1997-08-25
CID:	205
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False

METROPOLITAIN AVE & GRAND (Continued) **S102663534**

Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-08-25
Spill Record Last Update:	1997-08-26
Spiller Name:	SAME
Spiller Company:	ABC TRANSPORT
Spiller Address:	18-65 4ND STREET
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MARTINKAT REFERRED TO FD- SANITATION AND FAXED ECS."
Remarks:	"LEAKING FROM TANK AFTER KICKING UP STONE THAT CUT HOSE."

All Materials:

Site ID:	322309
Operable Unit ID:	1052464
Operable Unit:	01
Material ID:	331917
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	100.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

I98 **METROPOLITAN AVE BRIDGE** **NY Spills** **S107409500**
WNW **METROPOLITAN AVENUE** **N/A**
< 1/8 **BROOKLYN, NY**
0.124 mi.
655 ft. **Site 11 of 12 in cluster I**

Relative:
Lower

Actual:
0 ft.

SPILLS:

Name:	METROPOLITAN AVE BRIDGE
Address:	METROPOLITAN AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0205135 / 2002-08-16
Facility ID:	0205135
Facility Type:	ER
DER Facility ID:	195292
Site ID:	237049
DEC Region:	2
Spill Cause:	Other
Spill Class:	C3
SWIS:	2401
Spill Date:	2002-08-15
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	2002-08-15
CID:	207
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported

METROPOLITAN AVE BRIDGE (Continued) **S107409500**

Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2002-08-15
Spill Record Last Update:	2002-08-16
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	PINAKIN PATEL
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEMEO 8/16/2002-VOUGHT-Spoke with Pinakin Patel on 8/16. No spill associated with bridge work. Work performed was replacement of a a steel roadplate. No spill occurred."
Remarks:	"NOTIFICATION DOT IS WORKING ON BRIDGE "

I99 **METROPOLITAN AVE BRIDGE** **NY Spills** **S106469921**
WNW **OVER ENGLISH KILLS CREEK** **N/A**
< 1/8 **BROOKLYN, NY**
0.124 mi.
655 ft. **Site 12 of 12 in cluster I**

Relative: **Lower**

Actual: **0 ft.**

SPILLS:

Name:	METROPOLITAN AVE BRIDGE
Address:	OVER ENGLISH KILLS CREEK
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0402660 / 2006-08-25
Facility ID:	0402660
Facility Type:	ER
DER Facility ID:	201025
Site ID:	244729
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	2401
Spill Date:	2004-06-04
Investigator:	qxabidi
Referred To:	Not reported
Reported to Dept:	2004-06-10
CID:	407
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2004-06-10
Spill Record Last Update:	2006-08-25
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	JOHN KURREY

METROPOLITAN AVE BRIDGE (Continued) **S106469921**

DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE 6/10/04 Tipple updating////wood cribbing below movable bridge soaked with oil,approx 10'x20' area. (Sample results back today) and gasoline approx 2' below pavement at the intersection of Metropolitan and Varick Streets. DOT will excavate as per design for both bridge footing and roadway and properly dispose of all contaminated debris. Report will follow once the subsurface work is completed. 06/28/06: This spill is transferred from Mr. Koon Tang to Q.Abidi. Contacted to Mr. John Kurrey at (212)788-2083 regarding information of spill. He said that they did rebuilding the bridge and collected soil samples. He will find out the report and he will fax me. -QA 07/07/06: Reviewed report of soil samples analytical data recieved today from Mr. John Kurre by mail. Soil samples are not cleaned yet. They have to do additional Investigation including Investigation of groundwater and soil sampling from different locations. -QA 08/17/06: Recieved call from Mr. John Kurre he said this is not the remedial project. He excavated the soil where the have made the bidge. He also said that whole neighbourhood is contaminated. He will send a letter explaining the situation. -QA 08/21/06: Called Mr. John Kurre he will send a letter soon because he is not going to do anything over there. He will explain the situation in the letter. -QA 08/23/06: Called Mr. John Kurre and asked about waste manifest report. He said that he will fax it to me at the earliest. -QA 08/24/06: Called Mr. John Kurre for waste manifest report and left message to call me back. -QA 08/25/06: According to the letter of Mr. John Kurre, Director, Environmental Engineering unit, Only contaminated soil encountered during construction activities was excavated and the excavated soil was disposed of at a licenced and permitted disposal facility. No attempt was made to identify the source of the spill. Currently the metropolitan bridge construction has been completed and all excavated areas were backfilled with clean fill and the bridge roadways were replaced. Based on this information staff closed the spill. -QA "

Remarks: "Cleanup is pending."

All Materials:

Site ID:	244729
Operable Unit ID:	884318
Operable Unit:	01
Material ID:	490277
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

Site ID:	244729
Operable Unit ID:	884318
Operable Unit:	01
Material ID:	490276
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	L

METROPOLITAN AVE BRIDGE (Continued) **S106469921**

Recovered: .00
Oxygenate: Not reported

N100 **CON EDISON** **NY MANIFEST** **S117538353**
NE **228 GARDNER AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.129 mi.
682 ft. **Site 1 of 6 in cluster N**

Relative: **Lower**
Actual: **10 ft.**

NY MANIFEST:
Name: CON EDISON
Address: 228 GARDNER AVE
City,State,Zip: BROOKLYN, NY 11211
Country: USA
EPA ID: NYP004710216
Facility Status: Not reported
Location Address 1: 228 GARDNER AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11211
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004710216
Mailing Name: CON EDISON
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PL
Mailing Address 2: 15TH FL
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2018
Trans1 State ID: NYD006982359
Trans2 State ID: Not reported
Generator Ship Date: 12/21/2014
Trans1 Recv Date: 12/30/2014
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/30/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004710216
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: NJD002200046
TSDF ID 2: Not reported
Manifest Tracking Number: 014161753JJK

CON EDISON (Continued) **S117538353**

Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	Y
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1658
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	B002
Waste Code 1_6:	Not reported

L101 **CONSOLIDATED CARPET TRADE WORKROOM INC.** **NY UST** **U003065847**
North **1181 GRAND STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.132 mi.
697 ft. **Site 2 of 8 in cluster L**

Relative:
Lower

Actual:
2 ft.

UST:

Name:	CONSOLIDATED CARPET TRADE WORKROOM INC.
Address:	1181 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11211
Id/Status:	2-233234 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590484.60849
UTM Y:	4507679.73838
Site Type:	Other

Affiliation Records:

Site Id:	8476
Affiliation Type:	Facility Owner
Company Name:	CONSOLIDATED CARPET TRADE WORKROOM INC.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1181 GRAND STREET
Address2:	Not reported

CONSOLIDATED CARPET TRADE WORKROOM INC. (Continued) **U003065847**

City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 456-8207
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	8476
Affiliation Type:	Mail Contact
Company Name:	CONSOLIDATED CARPET TRADE WORKROOM
Contact Type:	Not reported
Contact Name:	MICHAEL TASSONE
Address1:	Not reported
Address2:	1181 GRAND STREET
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 456-8207
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	8476
Affiliation Type:	Facility Operator
Company Name:	CONSOLIDATED CARPET TRADE WORKROOM INC.
Contact Type:	Not reported
Contact Name:	CONSOLIDATED CARPET
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 456-8207
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	8476
Affiliation Type:	Emergency Contact
Company Name:	CONSOLIDATED CARPET TRADE WORKROOM INC.
Contact Type:	Not reported
Contact Name:	MICHAEL TASSONE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 456-8207
EMail:	Not reported

CONSOLIDATED CARPET TRADE WORKROOM INC. (Continued) **U003065847**

Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank ID:	24154
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	2000
Install Date:	Not reported
Date Tank Closed:	06/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	03
Date Test:	08/01/1994
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	002
Tank ID:	24155
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	3000
Install Date:	Not reported
Date Tank Closed:	03/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	03
Date Test:	08/01/1994
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

CONSOLIDATED CARPET TRADE WORKROOM INC. (Continued) **U003065847**

Equipment Records:

H00 - Tank Leak Detection - None
I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number:	003
Tank ID:	50719
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number:	004
Tank ID:	50720
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

CONSOLIDATED CARPET TRADE WORKROOM INC. (Continued) **U003065847**

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 005
Tank ID: 50721
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

L102 **CONSOLIDATED CARPET TRADE WORK** **RCRA NonGen / NLR** **1001119547**
North **1181 GRAND ST** **NY MANIFEST** **NYR000028340**
1/8-1/4 **BROOKLYN, NY 11211**
0.132 mi.
697 ft. **Site 3 of 8 in cluster L**

Relative: **Lower**
Actual: **2 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20070101
Handler Name:	CONSOLIDATED CARPET TRADE WORK
Handler Address:	1181 GRAND ST
Handler City,State,Zip:	BROOKLYN, NY 11211-1811
EPA ID:	NYR000028340
Contact Name:	Not reported
Contact Address:	GRAND ST
Contact City,State,Zip:	BROOKLYN, NY 11211
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	GRAND ST
Mailing City,State,Zip:	BROOKLYN, NY 11211
Owner Name:	DAVID MEBERG
Owner Type:	Private
Operator Name:	DAVID MEBERG
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

CONSOLIDATED CARPET TRADE WORK (Continued) **1001119547**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D018
Waste Description:	BENZENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DAVID MEBERG
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1181 GRAND ST
Owner/Operator City,State,Zip:	BROOKLYN, NY 11211
Owner/Operator Telephone:	718-456-8207
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	DAVID MEBERG
Legal Status:	Private
Date Became Current:	Not reported

CONSOLIDATED CARPET TRADE WORK (Continued) **1001119547**

Date Ended Current:	Not reported
Owner/Operator Address:	1181 GRAND ST
Owner/Operator City,State,Zip:	BROOKLYN, NY 11211
Owner/Operator Telephone:	718-456-8207
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DAVID MEBERG
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1181 GRAND ST
Owner/Operator City,State,Zip:	BROOKLYN, NY 11211
Owner/Operator Telephone:	718-456-8207
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990708
Handler Name:	CONSOLIDATED CARPET TRADE WORK
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060101
Handler Name:	CONSOLIDATED CARPET TRADE WORK
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101
Handler Name:	CONSOLIDATED CARPET TRADE WORK
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes

CONSOLIDATED CARPET TRADE WORK (Continued) **1001119547**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960819
Handler Name: CONSOLIDATED CARPET TRADE WORK
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

NY MANIFEST:
Name: CONSOLIDATED CARPET TRADE WORKROOM
Address: 1181 GRAND ST
City,State,Zip: BROOKLYN, NY 11211-1811
Country: USA
EPA ID: NYR000028340
Facility Status: Not reported
Location Address 1: 1181 GRAND STREET
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11211
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYR000028340
Mailing Name: CONSOLIDATED CARPET TRADE WORKROOM
Mailing Contact: STEVEN SACCHINELLI
Mailing Address 1: 1181 GRAND STREET
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11211
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 7184568207

L103 **NYC FIRE DEPT ENGINE CO 206** **RCRA NonGen / NLR** **1001197481**
North **1201 GRAND ST** **FINDS** **NYR000040360**
1/8-1/4 **BROOKLYN, NY 11211** **ECHO**
0.138 mi. **NY MANIFEST**
727 ft. **Site 4 of 8 in cluster L**

Relative: **Lower**
Actual: **5 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20070101
Handler Name:	NYC FIRE DEPT ENGINE CO 206
Handler Address:	1201 GRAND ST
Handler City,State,Zip:	BROOKLYN, NY 11211-1811
EPA ID:	NYR000040360
Contact Name:	Not reported
Contact Address:	GRAND ST
Contact City,State,Zip:	BROOKLYN, NY 11206
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Municipal
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	GRAND ST
Mailing City,State,Zip:	BROOKLYN, NY 11206
Owner Name:	NYC FIRE DEPT
Owner Type:	Municipal
Operator Name:	NYC FIRE DEPT
Operator Type:	Municipal
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

NYC FIRE DEPT ENGINE CO 206 (Continued) **1001197481**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	X003
Waste Description:	Not Defined

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NYC FIRE DEPT
Legal Status:	Municipal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1201 GRAND ST
Owner/Operator City,State,Zip:	BROOKLYN, NY 11206
Owner/Operator Telephone:	718-965-8206
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	NYC FIRE DEPT
Legal Status:	Municipal
Date Became Current:	Not reported

NYC FIRE DEPT ENGINE CO 206 (Continued) **1001197481**

Date Ended Current:	Not reported
Owner/Operator Address:	1201 GRAND ST
Owner/Operator City,State,Zip:	BROOKLYN, NY 11206
Owner/Operator Telephone:	718-965-8206
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	NYC FIRE DEPT
Legal Status:	Municipal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1201 GRAND ST
Owner/Operator City,State,Zip:	BROOKLYN, NY 11206
Owner/Operator Telephone:	718-965-8206
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990708
Handler Name:	NYC FIRE DEPT ENGINE CO 206
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20060101
Handler Name:	NYC FIRE DEPT ENGINE CO 206
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20070101
Handler Name:	NYC FIRE DEPT ENGINE CO 206
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes

NYC FIRE DEPT ENGINE CO 206 (Continued) **1001197481**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19970604
Handler Name: NYC FIRE DEPT ENGINE CO 206
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110004534834

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1001197481
Registry ID: 110004534834
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004534834
Name: NYC FIRE DEPT ENGINE CO 206
Address: 1201 GRAND ST
City,State,Zip: BROOKLYN, NY 11211

NY MANIFEST:
Name: NYC FIRE DEPT ENGINE CO 206
Address: 1201 GRAND ST
City,State,Zip: BROOKLYN, NY 11211-1811
Country: USA
EPA ID: NYR000040360

NYC FIRE DEPT ENGINE CO 206 (Continued) **1001197481**

Facility Status: Not reported
Location Address 1: 1201 GRAND ST
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11206
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYR000040360
Mailing Name: NYC FIRE DEPT ENGINE CO 206
Mailing Contact: DANIEL DONOGHUE
Mailing Address 1: 1201 GRAND ST
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11206
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 7189658206

L104 **ENGINE COMPANY 206** **NY UST** **U004078183**
North **1201 GRAND STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.138 mi.
727 ft. **Site 5 of 8 in cluster L**

Relative:
Lower

Actual:
5 ft.

UST:
Name: ENGINE COMPANY 206
Address: 1201 GRAND STREET
City,State,Zip: BROOKLYN, NY 11211
Id/Status: 2-601787 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: 590528.30617
UTM Y: 4507695.11062
Site Type: Other

Affiliation Records:
Site Id: 23749
Affiliation Type: Facility Owner
Company Name: F.D.N.Y.
Contact Type: Not reported
Contact Name: Not reported
Address1: 9 METROTECH CENTER
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11201-3857
Country Code: 001
Phone: (718) 999-2094
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI

ENGINE COMPANY 206 (Continued) **U004078183**

Date Last Modified: 2016-09-15

Site Id: 23749
Affiliation Type: Mail Contact
Company Name: F.D.N.Y. - BLDG. MAINTENANCE
Contact Type: Not reported
Contact Name: DIRECTOR
Address1: 48-34 35TH STREET
Address2: Not reported
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 784-6510
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Site Id: 23749
Affiliation Type: Facility Operator
Company Name: ENGINE COMPANY 206
Contact Type: Not reported
Contact Name: COMPANY OFFICER
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 965-8206
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Site Id: 23749
Affiliation Type: Emergency Contact
Company Name: F.D.N.Y.
Contact Type: Not reported
Contact Name: EOC/NOTIFICATION DESK
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 999-2094
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2010-01-07

Tank Info:

Tank Number: 001
Tank ID: 47793

ENGINE COMPANY 206 (Continued) **U004078183**

Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	3000
Install Date:	Not reported
Date Tank Closed:	02/01/2001
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
J00 - Dispenser - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number:	003
Tank ID:	47795
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	1100
Install Date:	Not reported
Date Tank Closed:	12/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
J00 - Dispenser - None
F00 - Pipe External Protection - None

ENGINE COMPANY 206 (Continued) **U004078183**

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping

L105 **ENGINE COMPANY 206** **NY AST** **U003178529**
North **1201 GRAND STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.138 mi.
727 ft. **Site 6 of 8 in cluster L**

Relative: **Lower**

Actual: **5 ft.**

AST:

Name:	ENGINE COMPANY 206
Address:	1201 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11211
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-601787
Program Type:	PBS
UTM X:	590528.30617
UTM Y:	4507695.11062
Expiration Date:	N/A
Site Type:	Other

Affiliation Records:

Site Id:	23749
Affiliation Type:	Facility Owner
Company Name:	F.D.N.Y.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	9 METROTECH CENTER
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201-3857
Country Code:	001
Phone:	(718) 999-2094
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-09-15

Site Id:	23749
Affiliation Type:	Mail Contact
Company Name:	F.D.N.Y. - BLDG. MAINTENANCE
Contact Type:	Not reported
Contact Name:	DIRECTOR
Address1:	48-34 35TH STREET
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 784-6510
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

ENGINE COMPANY 206 (Continued) **U003178529**

Site Id:	23749
Affiliation Type:	Facility Operator
Company Name:	ENGINE COMPANY 206
Contact Type:	Not reported
Contact Name:	COMPANY OFFICER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 965-8206
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	23749
Affiliation Type:	Emergency Contact
Company Name:	F.D.N.Y.
Contact Type:	Not reported
Contact Name:	EOC/NOTIFICATION DESK
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 999-2094
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-01-07

Tank Info:

Tank Number:	002
Tank Id:	47794
Material Code:	0009
Common Name of Substance:	Gasoline

Equipment Records:

A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
J00 - Dispenser - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping

Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported

ENGINE COMPANY 206 (Continued) **U003178529**

Install Date:	Not reported
Capacity Gallons:	1100
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	05/01/1997
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	gasoline

Tank Number:	004
Tank Id:	47796
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction Dispenser
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
C01 - Pipe Location - Aboveground
F00 - Pipe External Protection - None
H05 - Tank Leak Detection - In-Tank System (ATG)

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	diesel

Tank Number:	005
Tank Id:	55980
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction Dispenser

ENGINE COMPANY 206 (Continued) **U003178529**

C03 - Pipe Location - Aboveground/Underground Combination
F04 - Pipe External Protection - Fiberglass
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
F05 - Pipe External Protection - Jacketed
H05 - Tank Leak Detection - In-Tank System (ATG)

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	12/01/1998
Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	diesel

N106 **WASTE MANAGEMENT OF NY (232 GARDNER)** **NY SWF/LF** **S105841929**
NNE **232 GARDNER AVENUE** **NY Spills** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.138 mi.
727 ft. **Site 2 of 6 in cluster N**

Relative: **Lower**
Actual: **10 ft.**

SWF/LF:

Name:	WASTE MANAGEMENT OF NY (232 GARDNER)
Address:	232 GARDNER AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Waste management of NY
Owner Type:	Private
Owner Address:	123 Varick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Tara Hemmer
Contact Address:	123 Varick Avenue
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY 11237
Contact Email:	Not reported
Contact Phone:	7185335308
Activity Desc:	C&D processing - permit
Activity Number:	[24W98]
Active:	No
East Coordinate:	590800
North Coordinate:	4507700
Accuracy Code:	2.1 - NYSDEC 100 m grid collection
Regulatory Status:	Permit
Waste Type:	Wood (Clean)
Authorization #:	2-6101-00113
Authorization Date:	3/10/1997

WASTE MANAGEMENT OF NY (232 GARDNER) (Continued) **S105841929**

Expiration Date: 3/10/2002
Operator Name: Not reported
Operator Type: Not reported
Laste Date: Not reported

SPILLS:

Name:	232 GARDNER AVE
Address:	232 GARDNER AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9705376 / 1997-08-04
Facility ID:	9705376
Facility Type:	ER
DER Facility ID:	105306
Site ID:	121322
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	1997-08-04
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	1997-08-04
CID:	281
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-08-04
Spill Record Last Update:	2003-02-24
Spiller Name:	UNKNOWN
Spiller Company:	Not reported
Spiller Address:	232 GARDNER AVE
Spiller Company:	001
Contact Name:	MIKE CONNOLLY
DEC Memo:	""
Remarks:	"MALFUNCTIONING OIL BURNER. CREW ON SCENE AND CLEAN UP IS IN PROGRESS."

All Materials:

Site ID:	121322
Operable Unit ID:	1051373
Operable Unit:	01
Material ID:	334594
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50.00
Units:	G
Recovered:	50.00
Oxygenate:	Not reported

N107 **WASTE MANAGEMENT OF NEW YORK,LLC** **NY AST** **S107782970**
NNE **232 GARDNER AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.138 mi.
727 ft. **Site 3 of 6 in cluster N**

Relative:
Lower

Actual:
10 ft.

AST:

Name:	WASTE MANAGEMENT OF NEW YORK,LLC
Address:	232 GARDNER AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-602602
Program Type:	PBS
UTM X:	590679.03443
UTM Y:	4507683.30132
Expiration Date:	N/A
Site Type:	Other

Affiliation Records:

Site Id:	24559
Affiliation Type:	Facility Owner
Company Name:	WASTE MANAGEMENT OF NEW YORK,LLC
Contact Type:	ENVIRONMENTAL MANAGER
Contact Name:	JAY KAPLAN
Address1:	123 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 533-5310
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MABARTLE
Date Last Modified:	2005-03-17

Site Id:	24559
Affiliation Type:	Mail Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK,LLC
Contact Type:	ENVIRONMENTAL MANAGER
Contact Name:	JAY KAPLAN
Address1:	123 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 533-5310
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MABARTLE
Date Last Modified:	2005-03-17

Site Id:	24559
Affiliation Type:	Facility Operator
Company Name:	WASTE MANAGEMENT OF NEW YORK,LLC
Contact Type:	Not reported
Contact Name:	JAY KAPLAN

WASTE MANAGEMENT OF NEW YORK,LLC (Continued) **S107782970**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 533-5310
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MABARTLE
Date Last Modified:	2005-03-17

Site Id:	24559
Affiliation Type:	Emergency Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK,LLC
Contact Type:	Not reported
Contact Name:	JAY KAPLAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 533-5310
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MABARTLE
Date Last Modified:	2005-03-17

Tank Info:

Tank Number:	001
Tank Id:	50689
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

J02 - Dispenser - Suction Dispenser
E00 - Piping Secondary Containment - None
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
F00 - Pipe External Protection - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
D11 - Pipe Type - Flexible Piping
I05 - Overfill - Vent Whistle

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/01/1994

WASTE MANAGEMENT OF NEW YORK,LLC (Continued) **S107782970**

Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/01/2005
Register:	True
Modified By:	MABARTLE
Last Modified:	04/14/2017
Material Name:	diesel

Tank Number:	002
Tank Id:	50690
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
L00 - Piping Leak Detection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D11 - Pipe Type - Flexible Piping

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel Tank in Concrete
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/01/1994
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/01/2005
Register:	True
Modified By:	MABARTLE
Last Modified:	04/14/2017
Material Name:	diesel

M108 **HI-TECH RESOURCE RECOVERY INC** **NY SWF/LF** **S105841723**
South **130 VARICK AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.138 mi.
728 ft. **Site 2 of 13 in cluster M**

Relative: SWF/LF:
Lower

Name:	HI-TECH RESOURCE RECOVERY INC
Address:	130 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	ACTIVE

Actual:
12 ft.

HI-TECH RESOURCE RECOVERY INC (Continued) **S105841723**

Region Code:	2
Phone Number:	7183865750
Owner Name:	Hi-Tech Resource Recovery Inc.
Owner Type:	Private
Owner Address:	7310 Edsall Ave
Owner Addr2:	Not reported
Owner City,St,Zip:	Glendale, NY 11385
Owner Email:	atarantola@mrtcarting.com
Owner Phone:	7183660834
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24T73]
Active:	Yes
East Coordinate:	590541
North Coordinate:	4507211
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	MSW (Residential/Institutional & Commercial);Commingled Paper & Containers;Corrugated Cardboard;Metals (Ferrous & Non-Ferrous);Commingled Plastics;Wood (Brush/ Branches/ Trees/ Stumps)
Authorization #:	2-6104-00012/00004
Authorization Date:	7/9/2019
Expiration Date:	5/4/2021
Operator Name:	Hi-Tech Resource Recovery Inc
Operator Type:	Private
Laste Date:	Not reported

Name:	HI-TECH RESOURCE RECOVERY INC
Address:	130 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	ACTIVE
Region Code:	2
Phone Number:	7183865750
Owner Name:	Hi-Tech Resource Recovery Inc.
Owner Type:	Private
Owner Address:	7310 Edsall Ave
Owner Addr2:	Not reported
Owner City,St,Zip:	Glendale, NY 11385
Owner Email:	atarantola@mrtcarting.com
Owner Phone:	7183660834
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - permit
Activity Number:	[24W73]
Active:	Yes
East Coordinate:	590541
North Coordinate:	4507211
Accuracy Code:	Not reported

HI-TECH RESOURCE RECOVERY INC (Continued) **S105841723**

Regulatory Status:	Permit
Waste Type:	Construction & Demolition Debris;Metals (Ferrous);Metals (Non-Ferrous);Paper / Cardboard;Plastics
Authorization #:	2-6104-00012/00004
Authorization Date:	7/9/2019
Expiration Date:	5/4/2021
Operator Name:	Hi-Tech Resource Recovery Inc
Operator Type:	Private
Laste Date:	Not reported

M109 **HI-TECH RESOURCE RECOVERY INC** **RCRA NonGen / NLR** **1008374412**
South **130 VARICK AVE** **NYN008014441**
1/8-1/4 **BROOKLYN, NY 11237**
0.138 mi.
728 ft. **Site 3 of 13 in cluster M**

Relative: **Lower**

Actual: **12 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20070101
Handler Name:	HI-TECH RESOURCE RECOVERY INC
Handler Address:	130 VARICK AVE
Handler City,State,Zip:	BROOKLYN, NY 11237
EPA ID:	NYN008014441
Contact Name:	VINCENT ZAMBROTTA
Contact Address:	Not reported
Contact City,State,Zip:	NY
Contact Telephone:	718-386-5750
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	Not reported
Mailing City,State,Zip:	NY
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported

HI-TECH RESOURCE RECOVERY INC (Continued) **1008374412**

Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20040402
Handler Name:	HI-TECH RESOURCE RECOVERY INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

HI-TECH RESOURCE RECOVERY INC (Continued) **1008374412**

Receive Date: 20060101
Handler Name: HI-TECH RESOURCE RECOVERY INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: HI-TECH RESOURCE RECOVERY INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

O110 **BAYSIDE FUEL OIL DEPOT CORP** **RCRA NonGen / NLR** **1000366366**
WNW **1100 GRAND ST** **FTTS** **NYD980526420**
1/8-1/4 **BROOKLYN, NY 11211** **HIST FTTS**
0.142 mi. **FINDS**
752 ft. **Site 1 of 6 in cluster O** **ECHO**

Relative:
Higher

Actual:
14 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 20070101
Handler Name: BAYSIDE FUEL OIL DEPOT CORP
Handler Address: 1100 GRAND ST
Handler City,State,Zip: BROOKLYN, NY 11211-1701
EPA ID: NYD980526420
Contact Name: Not reported
Contact Address: SHORE PKWY
Contact City,State,Zip: BROOKLYN, NY 11214
Contact Telephone: Not reported
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 02

BAYSIDE FUEL OIL DEPOT CORP (Continued) **1000366366**

Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	SHORE PKWY
Mailing City,State,Zip:	BROOKLYN, NY 11214
Owner Name:	ALFRED ALLEGRETTI
Owner Type:	Private
Operator Name:	ALFRED ALLEGRETTI
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No

BAYSIDE FUEL OIL DEPOT CORP (Continued) **1000366366**

Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	K051
Waste Description:	API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY.
Waste Code:	NONE
Waste Description:	Not Defined

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ALFRED ALLEGRETTI
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1776 SHORE PKWY
Owner/Operator City,State,Zip:	BROOKLYN, NY 11214
Owner/Operator Telephone:	718-372-9800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	ALFRED ALLEGRETTI
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1776 SHORE PKWY
Owner/Operator City,State,Zip:	BROOKLYN, NY 11214
Owner/Operator Telephone:	718-372-9800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	ALFRED ALLEGRETTI
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1776 SHORE PKWY
Owner/Operator City,State,Zip:	BROOKLYN, NY 11214

BAYSIDE FUEL OIL DEPOT CORP (Continued) **1000366366**

Owner/Operator Telephone: 718-372-9800
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19990708
Handler Name: BAYSIDE FUEL OIL DEPOT CORP
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: BAYSIDE FUEL OIL DEPOT CORP
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: BAYSIDE FUEL OIL DEPOT CORP
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19980406
Handler Name: BAYSIDE FUEL OIL DEPOT CORP
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

BAYSIDE FUEL OIL DEPOT CORP (Continued) **1000366366**

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FTTS INSP:
Inspection Number: 2000062114616 2
Region: 02
Inspection Date: 06/21/00
Inspector: A. REDDY, DT
Violation occurred: No
Investigation Type: EPCRA, Enforcement, Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: EPCRA
Facility Function: Processor

HIST FTTS INSP:
Inspection Number: 2000062114616 2
Region: 02
Inspection Date: Not reported
Inspector: A. REDDY, DT
Violation occurred: No
Investigation Type: EPCRA, Enforcement, Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: EPCRA
Facility Function: Processor

FINDS:
Registry ID: 110004386860

Click Here:

Environmental Interest/Information System:
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United

BAYSIDE FUEL OIL DEPOT CORP (Continued) **1000366366**

States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000366366
Registry ID:	110004386860
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110004386860
Name:	BAYSIDE - GRAND STREET TERMINAL
Address:	1100 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211

O111 **BAYSIDE FUEL OIL DEPOT-1100 GRAND ST** **NY MOSF** **S102150611**
WNW **1100 GRAND ST** **NY Spills** **N/A**
1/8-1/4 **BROOKLYN, NY 11211** **NY SPDES**
0.142 mi.
752 ft. **Site 2 of 6 in cluster O**

Relative:
Higher

Actual:
14 ft.

MOSF:

Name:	BAYSIDE FUEL OIL DEPOT CORP.
Address:	1100 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11211
Facility ID:	2-1280
Program Type:	MOSF
Tank Status:	Active
Expiration Date:	03/31/2023
Dec Region:	2
UTMX:	590199.08129
UTMY:	4507510.10481

SPILLS:

Name:	CIBRO TERMINAL
Address:	1100 GRAND STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9505983 / 2009-03-25
Facility ID:	9505983
Facility Type:	ER

BAYSIDE FUEL OIL DEPOT-1100 GRAND ST (Continued) **S102150611**

DER Facility ID:	119283
Site ID:	280171
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C3
SWIS:	2401
Spill Date:	1995-08-15
Investigator:	LXZIELIN
Referred To:	Not reported
Reported to Dept:	1995-08-15
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1995-09-11
Spill Record Last Update:	2009-03-25
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	Not reported
DEC Memo:	"03/25/09 - LZ According to Anna-Marie Franzese of Bayside Fuel Oil Depot, who inquired a facility's employee, during removal of an UST, contaminated soil of unknown quantity was disposed of. The spill case is closed. Prior to Sept, 2004 data translation this spill Lead_DEC Field was BREEN "
Remarks:	"TANK REMOVAL - FOUND SOME CONTAMINATED SOIL - ESTIMATING SOME AMOUNT - GEORGE BREEN FROM DEC ON SITE"

All Materials:

Site ID:	280171
Operable Unit ID:	1020784
Operable Unit:	01
Material ID:	363971
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	G
Recovered:	10.00
Oxygenate:	Not reported

Name:	DRILL 1
Address:	1100 GRAND ST
City,State,Zip:	BROOKLYN, NY 11207
Spill Number/Closed Date:	1701952 / 2017-05-30
Facility ID:	1701952
Facility Type:	ER
DER Facility ID:	503704
Site ID:	550075

BAYSIDE FUEL OIL DEPOT-1100 GRAND ST (Continued) **S102150611**

DEC Region:	2
Spill Cause:	Unknown
Spill Class:	E5
SWIS:	2401
Spill Date:	2017-05-30
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2017-05-30
CID:	Not reported
Water Affected:	NEW TOWN CREEK
Spill Source:	Chemical Bulk Storage Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2017-05-30
Spill Record Last Update:	2017-05-30
Spiller Name:	DRILL FRANK
Spiller Company:	DRILL
Spiller Address:	1100 GRAND ST
Spiller Company:	999
Contact Name:	DRILL FRANK
DEC Memo:	"**********DRILL**********"
Remarks:	"DRILL DRILL DRILL"

All Materials:

Site ID:	550075
Operable Unit ID:	1298154
Operable Unit:	01
Material ID:	2304303
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2000.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

Name:	OIL FACILITY
Address:	1100 GRAND STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	2009285 / 2021-03-19
Facility ID:	2009285
Facility Type:	ER
DER Facility ID:	119283
Site ID:	616268
DEC Region:	2
Spill Cause:	Human Error
Spill Class:	Not reported
SWIS:	2401
Spill Date:	2021-02-08
Investigator:	RHLIN
Referred To:	Not reported

BAYSIDE FUEL OIL DEPOT-1100 GRAND ST (Continued) **S102150611**

Reported to Dept:	2021-02-08
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2021-02-08
Spill Record Last Update:	2021-03-19
Spiller Name:	VINCENT ALLEGRETTI
Spiller Company:	BAY SIDE FUEL OIL DEPOT
Spiller Address:	1100 GRAND STREET
Spiller Company:	999
Contact Name:	VINCENT ALLEGRETTI
DEC Memo:	"2/8/21 - Sekhon Due to human error 1000 - 3000 gallons spilled, contained, Miller environmental on its way. Case discussed with DEC Austin & DEC Lin dispatched to investigate. 2/9/21 - Kim - I returned to the site at 10AM. Dan with Miller Environmental and Mike with Bayside Fuel were on site. Miller Environmental had a crew working on the soil covered tanks, removing impacted snow and soil. A Miller Environmental guzzler vacuum truck was being used to collect impacted material. Dan with Miller Environmental stated that oil started coming out of the gauge opening, which is located close to the concrete curb surrounding the soil covered tanks, and a small amount of oil went over the curb. Some oil also likely came out of the vent lines as well. The impacted area past the concrete curb was removed and drummed. The majority of the oil went into the drain located on top of the soil covered tanks and into the soil covering the tanks within the concrete curb. This drainage system discharges to a holding tank connected to the Oil Water Separator. I did not observe any spilled oil in the Oil Water Separator. Mike with Bayside Fuel showed me some of the site's monitoring wells; I did not observe any spilled oil in the monitoring wells. 2/12/21 - Kim - I revisited the Bayside Terminal today at 11:30AM and met with Dan Goodwin with Miller Environmental. Miller is continuing to work on removing the contaminated soil on top of the soil covered tanks. Today they were working on the area towards Newtown Creek and closer to where the storm drain on top of the tanks is located. Miller Environmental's crew was working on removing another load of soil by hand-digging impacted soil and using a Miller guzzler truck. As there is a storm expected over the weekend, Miller are going to cover any unexcavated areas impacted by the spilled oil with a tarp. Based on the current forecast, it is questionable whether they will be able to continue working on the cleanup on Tuesday. 2/16/21 - Kim - I spoke with Dan Goodwin with Miller Environmental this morning. Today, they had a rolloff truck remove 2 containers with waste debris for disposal. In anticipation of the storm over this past 3-day weekend, they cancelled soil excavation work for today. On Friday 2/12, they covered unexcavated, soil-impacted areas on top of these tanks with a plastic cover that appeared to have held up well over the weekend. There are some areas on top of these tanks where precipitation accumulated, so they placed absorbent booms within the concrete curb to contain any oil. There was no sheen observed on Newtown Creek and

BAYSIDE FUEL OIL DEPOT-1100 GRAND ST (Continued) **S102150611**

no sheen observed on standing puddles of water located outside of the concrete curb. 2/23/21 - Kim - I revisited the Bayside Terminal today at 10AM and met with'Dan Murphy with Miller and a crew that were at on site today continuing to dig contaminated soil and collecting the contaminated soil with their guzzler truck. They are planning to have a rolloff truck remove 1 container with waste debris for disposal today. Dan Murphy anticipates that they may be able to complete digging the contaminated soil tomorrow. 3/19/21-lin-According to Bayside Fuel Depot, the terminal operator was conducting a transfer between tanks following a power outage. During the transfer, the operator left his post to check on a person trying to gain access to the control room. The power outage affected the high alarm's ability to operate to design criteria. When the operator returned he noticed the release and stopped the transfer. Inventory reconciliation indicate the release was 1,870 gallons. Majority of the oil made it to the collection system on-site and went to a holding tank. About 1,876 gallons of oil and water was pumped out from the holding tank. According to miller most of the liquid pumped out from the holding tank was oil (approximately 1,600 gallons. About 200 to 300 gallons of oil made it onto the soil on the tank farm. The contaminated soil was removed using a guzzler and trenches were dug to capture the oil. Spills staff confirmed that the contaminated soil was removed from the tank farm using a PID meter. Groundwater monitoring wells on-site were checked and no free product were found in all the wells that were checked. All waste material generated were properly disposed of. Case closed."

Remarks: "Oil depot spilled and has been stopped and has osro oil spill response company or MEG miller environmental Group. is on the way. all contents spilled into the ground."

All Materials:

Site ID:	616268
Operable Unit ID:	1363391
Operable Unit:	01
Material ID:	2375640
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	3000.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

Name:	CIBRO TERMINALS
Address:	1100 GRAND STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9007551 / 2009-03-25
Facility ID:	9007551
Facility Type:	ER
DER Facility ID:	119283
Site ID:	139620
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	A3
SWIS:	2401
Spill Date:	1990-10-10

BAYSIDE FUEL OIL DEPOT-1100 GRAND ST (Continued) **S102150611**

Investigator:	LXZIELIN
Referred To:	Not reported
Reported to Dept:	1990-10-10
CID:	Not reported
Water Affected:	KILLS
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1990-10-10
Spill Record Last Update:	2009-03-25
Spiller Name:	Not reported
Spiller Company:	CIBRO
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"03/25/09 - LZ The spill has been contained by employing booms and cleaned up. The spill case is closed. Prior to Sept, 2004 data translation this spill Lead_DEC Field was BREEN DEC SIGONA REASSIGNED TO GEORGE BREEN ON 1/23/98"
Remarks:	"TANK OVERFILL, BARGE UNLOADING INTO 200K TANK, HUMAN ERROR CAUSED OVERFILL, AAA IS ON SITE TO CLEAN UP BOOMS HAVE BEEN DEPLOYED, USCG HAS BEEN NOTIFIED, NYCDEP & NYCFD ALSO NOTIFIED."

All Materials:

Site ID:	139620
Operable Unit ID:	948205
Operable Unit:	01
Material ID:	431403
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5000.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	CIBRO TERMINALS
Address:	1100 GRAND STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9104487 / 2009-03-25
Facility ID:	9104487
Facility Type:	ER
DER Facility ID:	119283
Site ID:	139621
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	2401
Spill Date:	1991-07-26
Investigator:	LXZIELIN
Referred To:	Not reported

BAYSIDE FUEL OIL DEPOT-1100 GRAND ST (Continued) **S102150611**

Reported to Dept:	1991-07-26
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1991-07-29
Spill Record Last Update:	2009-03-25
Spiller Name:	Not reported
Spiller Company:	CIBRO
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	Not reported
DEC Memo:	"03/25/09 - LZ Free product of unknown quantity has been extracted from the well. Presently, no monitoring well at the facility indicates the presence of free product (based on weekly and monthly reports on gauging of monitoring wells). The spill case is closed. . Prior to Sept, 2004 data translation this spill Lead_DEC Field was BREEN 11/18/94: REASSIGNED FROM SIGONA TO BREEN ON 11/18/94. 10/10/95: This is additional information about material spilled from the translation of the old spill file: WEATHERED #2F.0."
Remarks:	"DISCOVERED IN 4 SITE WELL #2"

All Materials:

Site ID:	139621
Operable Unit ID:	955257
Operable Unit:	01
Material ID:	423551
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPDES:

Name:	BAYSIDE FUEL OIL DEPOT-1100 GRAND ST
Address:	1100 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211
Permit Number:	NY0007641
State-Region:	2
Expiration Date:	12/31/2025
Current Major Minor Status:	Minor
Primary Facility SIC Code:	5171
State Water Body Name:	ENGLISH KILLS
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	5.00000000
Total App Design Flow(MGD):	Not reported

BAYSIDE FUEL OIL DEPOT-1100 GRAND ST (Continued) **S102150611**

UDF1:	DMR
Lat/Long:	40.713760 / 73.9320435
DMR Cognizant Official:	SCOTT VITELLO
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	BAYSIDE FUEL OIL DEPOT CORPORATION
Non-Gov Permit Street Address:	1776 SHORE PKWY
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11214
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	BAYSIDE FUEL OIL DEPOT CORP
Non-Gov Facility Street Address:	BAYSIDE FUEL OIL DEPOT-1100 GRAND STREET
Non-Gov Facility Supplemental Location:	1100 GRAND STREET
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
Region Permit Processed:	C
Dow Discharge Class Code:	01
SPDES Class Description:	State Significant Industrial
Affiliation Type Description:	Private
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

O112 **BAYSIDE FUEL OIL DEPORT CORP** **FINDS 1016158527**
WNW **1100 GRAND ST** **FUELS PROGRAM N/A**
1/8-1/4 **BROOKLYN, NY 11231**
0.142 mi.
752 ft. **Site 3 of 6 in cluster O**

Relative:
Higher

Actual:
14 ft.

FINDS:
Registry ID: 110070241347

Click Here:

Environmental Interest/Information System:
GASOLINE AND DIESEL PRODUCERS

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

FUELS PROGRAM:

Name:	BAYSIDE FUEL OIL DEPORT CORP
Address:	1100 GRAND ST
Address 2:	Not reported
City,State,Zip:	BROOKLYN, NY 11231
Program Type:	Diesel
Company Seq. ID:	4980
Business Activity:	Pipeline/Pass-Through Terminal, Truck Loading Terminal/Locomotive Marker Facility
Company Name:	BAYSIDE FUEL OIL DEPOT CORP
Company Address:	1776 SHORE PARKWAY BROOKLYN, NY 11214

BAYSIDE FUEL OIL DEPORT CORP (Continued) **1016158527**

Facility ID:	82643
Facility Type:	Diesel/Biodiesel
Facility Activity:	Mobile Facility, Truck Loading Terminal/Locomotive Marker Facility, Pipeline/Pass-Through Terminal Facility
Subject to 80.1403:	Not reported
Fuel Only For Off Road:	Yes
Fuel Created:	Not reported
D Code:	Not reported
OTAQ Program ID:	OTAQREG10027506

O113 **BAYSIDE FUEL OIL DEPOT CORP.** **NY MOSF UST** **S102633581**
WNW **1100 GRAND STREET** **NY MOSF AST** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.142 mi.
752 ft. **Site 4 of 6 in cluster O**

Relative:
Higher

Actual:
14 ft.

MOSF UST:

Id/Status:	2-1280 / ACTIVE FACILITY
SWIS Code:	61
Facility Town:	NEW YORK CITY
Contact Phone:	(718) 387-6641
Emergency Contact:	VINCENT ALLEGRETTI
Emergency Telephone:	(718) 372-9800
CBS Number:	Not reported
SPDES Num:	0-007641
Total Tanks:	8
Total Capacity:	1651241
Avg Throughput:	130000
License Stat:	1
Facility Type:	STORAGE TERMINAL/PETROLEUM DISTRIBUTOR
Prod Xfer Options:	AC
Expiration Date:	03/31/2002
Applic Rcvd:	01/05/2001
Operator:	VINCENT ALLEGRETTI
Owner Name:	BAYSIDE FUEL OIL DEPOT CORP.
Owner Address:	1776 SHORE PARKWAY
Owner City,St,Zip:	BROOKLYN, NY 11214-
Owner Telephone:	(718) 372-9800
Owner Type:	Corporate/Commercial
Owner Status:	1
Owner Mark:	Second Owner
Mail To Name:	BAYSIDE FUEL OIL DEPOT CORP.
Mail To Address:	1776 SHORE PARKWAY
Mail To Address 2:	PO BOX 140128
Mail City,St,Zip:	BROOKLYN, NY 11214-0002
Mail To Contact:	VINCENT ALLEGRETTI
Mail To Telephone:	(718) 372-9800
Legal Agent Name:	ALFRED ALLEGRETTI
Legal Agent Address:	1776 SHORE PARKWAY
Legal Agent City,St,Zip:	BROOKLYN, NY 11214-
Date Filed:	03/65
Latitude:	14|42|45
Longitude:	73|55|45

Tank ID:	001
Tank Location:	UNDERGROUND
Install Date:	12/37

BAYSIDE FUEL OIL DEPOT CORP. (Continued) **S102633581**

Capacity (Gal):	99960
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	Impressed Current
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	42
Dispenser:	Suction
Test Date:	03/96
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	002
Tank Location:	UNDERGROUND
Install Date:	12/37
Capacity (Gal):	249984
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	Impressed Current
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	42
Dispenser:	Suction
Test Date:	03/96
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001

BAYSIDE FUEL OIL DEPOT CORP. (Continued) **S102633581**

Federal Id No: Not reported
COI Date: / /

Tank ID: 003
Tank Location: UNDERGROUND
Install Date: 12/37
Capacity (Gal): 149982
Product: NOS 1,2, OR 4 FUEL OIL
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: Epoxy Liner
Tank External: Impressed Current
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Painted/Asphalt Coating
Second Contain: None
Leak Detection: Groundwater Well
Overfill Protection: 42
Dispenser: Suction
Test Date: 03/96
Date Closed: Not reported
Status of Data: Complete
Inspected Date: 07/13/1999
Inspector Initials: GN
Inspector Status: Not reported
Pipe Flag: False
License Issued: 04/01/2001
Vessel Id: Not reported
Renew Flag: True
Renew Date: 10/31/2001
Federal Id No: Not reported
COI Date: / /

Tank ID: 004
Tank Location: UNDERGROUND
Install Date: 12/37
Capacity (Gal): 249984
Product: DIESEL
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: Epoxy Liner
Tank External: Impressed Current
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Painted/Asphalt Coating
Second Contain: None
Leak Detection: Groundwater Well
Overfill Protection: 42
Dispenser: Suction
Test Date: 03/96
Date Closed: Not reported
Status of Data: Complete
Inspected Date: 07/13/1999

BAYSIDE FUEL OIL DEPOT CORP. (Continued) **S102633581**

Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	005
Tank Location:	UNDERGROUND
Install Date:	12/37
Capacity (Gal):	249984
Product:	DIESEL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	Impressed Current
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	42
Dispenser:	Suction
Test Date:	03/96
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	00A
Tank Location:	UNDERGROUND
Install Date:	12/65
Capacity (Gal):	550
Product:	EMPTY
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None

BAYSIDE FUEL OIL DEPOT CORP. (Continued) **S102633581**

Leak Detection:	Groundwater Well
Overfill Protection:	None
Dispenser:	Suction
Test Date:	01/88
Date Closed:	00/00
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	00B
Tank Location:	UNDERGROUND
Install Date:	12/65
Capacity (Gal):	550
Product:	EMPTY
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	None
Dispenser:	Suction
Test Date:	01/88
Date Closed:	00/00
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	00C
Tank Location:	UNDERGROUND
Install Date:	12/65
Capacity (Gal):	550
Product:	EMPTY
Tank Status:	In Service
Tank Type:	Steel/carbon steel

BAYSIDE FUEL OIL DEPOT CORP. (Continued) **S102633581**

Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	None
Dispenser:	Suction
Test Date:	01/88
Date Closed:	00/00
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	00D
Tank Location:	UNDERGROUND
Install Date:	12/65
Capacity (Gal):	550
Product:	EMPTY
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	None
Dispenser:	Suction
Test Date:	01/88
Date Closed:	00/00
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

BAYSIDE FUEL OIL DEPOT CORP. (Continued) **S102633581**

Tank ID:	OBF1
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	2000
Product:	EMPTY
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	None
Dispenser:	Not reported
Test Date:	Not reported
Date Closed:	00/00
Status of Data:	Minor Errors
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	OPS
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	7200
Product:	EMPTY
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	None
Dispenser:	Not reported
Test Date:	Not reported
Date Closed:	00/00
Status of Data:	Minor Errors
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001

BAYSIDE FUEL OIL DEPOT CORP. (Continued) **S102633581**

Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

MOSF AST:

MOSF Number:	2-1280
SWIS Code:	61
Facility Town:	NEW YORK CITY
Facility Phone:	(718) 387-6641
Emergency Contact Name:	VINCENT ALLEGRETTI
Emergency Contact Phone:	(718) 372-9800
Total Tanks:	8
Total Capacity:	1651241
Daily Throughput:	130000
License Status:	1
Facility Type:	STORAGE TERMINAL/PETROLEUM DISTRIBUTOR
Product Transfer Operation:	AC
Facility Status:	IN SERVICE
Operator Name:	VINCENT ALLEGRETTI
Owner Name:	BAYSIDE FUEL OIL DEPOT CORP.
Owner Address:	1776 SHORE PARKWAY
Owner City,St,Zip:	BROOKLYN, NY 11214-
Owner Phone:	(718) 372-9800
Owner Type:	Corporate/Commercial
Owner Status:	1
Owner Mark:	Second Owner
Mailing Name:	BAYSIDE FUEL OIL DEPOT CORP.
Mailing Address:	1776 SHORE PARKWAY
Mailing Address 2:	PO BOX 140128
Mailing City,St,Zip:	BROOKLYN, NY 11214-0002
Mailing Contact:	VINCENT ALLEGRETTI
Mailing Phone:	(718) 372-9800
Legal Agent Name:	ALFRED ALLEGRETTI
Legal Agent Address:	1776 SHORE PARKWAY
Legal Agent City,St,Zip:	BROOKLYN, NY 11214-
LIC Expires:	03/31/2002

Tank ID:	OBF-2
Tank Location:	ABOVEGROUND
Install Date:	11/99
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Secondary Containment:	Impervious Underlayment
Leak Detection:	None
Overfill Protection:	Vent Whistle
Dispensing Mthd:	Gravity
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete

BAYSIDE FUEL OIL DEPOT CORP. (Continued) **S102633581**

Capacity (gal): 275
Lat/Long: 14|42|45 / 73|55|45
Federal ID: Not reported
Inspected Date: 07/13/1999
Inspector: GN
Renew Date: 10/31/2001
Inspected State: Not reported
Pipe Flag: False
Vessel ID: Not reported
Reserve Flag: True
Tank Status: In Service
COI Date: / /
Date License Issued: 04/01/2001
Date License Application Received: 01/05/2001
Chemical Bulk Storage Number: Not reported
Pollution Discharge Elimination System Num: 0-007641
Date Legal Agent Filed with Secretary of State: 03/65

Tank ID: 000
Tank Location: ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Install Date: 12/88
Product: EMPTY
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: CATHODIC PROTECTION
Pipe Location: Aboveground
Pipe Type: Steel/Iron
Pipe Internal: None
Pipe External: Painted/Asphalt Coating
Secondary Containment: None
Leak Detection: Concrete Pad w/channels
Overfill Protection: None
Dispensing Mthd: Gravity
Test Date: Not reported
Date Closed: 00/00
Status of Data: Complete
Capacity (gal): 5000
Lat/Long: 14|42|45 / 73|55|45
Federal ID: Not reported
Inspected Date: 07/13/1999
Inspector: GN
Renew Date: 10/31/2001
Inspected State: Not reported
Pipe Flag: False
Vessel ID: Not reported
Reserve Flag: True
Tank Status: In Service
COI Date: / /
Date License Issued: 04/01/2001
Date License Application Received: 01/05/2001
Chemical Bulk Storage Number: Not reported
Pollution Discharge Elimination System Num: 0-007641
Date Legal Agent Filed with Secretary of State: 03/65

Tank ID: OBF

BAYSIDE FUEL OIL DEPOT CORP. (Continued) **S102633581**

Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Install Date:	08/92
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Secondary Containment:	81
Leak Detection:	53
Overfill Protection:	64
Dispensing Mthd:	Suction
Test Date:	Not reported
Date Closed:	08/92
Status of Data:	Complete
Capacity (gal):	1080
Lat/Long:	14|42|45 / 73|55|45
Federal ID:	Not reported
Inspected Date:	07/13/1999
Inspector:	GN
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	False
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	In Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-007641
Date Legal Agent Filed with Secretary of State:	03/65

Tank ID:	006
Tank Location:	ABOVEGROUND
Install Date:	12/72
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	FIBERGLASS REINFORCED PLASTIC
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Secondary Containment:	75
Leak Detection:	53
Overfill Protection:	42
Dispensing Mthd:	Suction
Test Date:	06/01
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	649992
Lat/Long:	14|42|45 / 73|55|45
Federal ID:	Not reported

BAYSIDE FUEL OIL DEPOT CORP. (Continued) **S102633581**

Inspected Date:	07/13/1999
Inspector:	GN
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	False
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	In Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-007641
Date Legal Agent Filed with Secretary of State:	03/65

L114 **UNION BEER DIST. L.L.C.** **NY UST** **U000408173**
North **1213-17 GRAND ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.143 mi.
756 ft. **Site 7 of 8 in cluster L**

Relative: **Lower**

Actual: **7 ft.**

UST:

Name:	UNION BEER DIST. L.L.C.
Address:	1213-17 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211
Id/Status:	2-010863 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590613.32312
UTM Y:	4507664.88008
Site Type:	Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id:	92
Affiliation Type:	Facility Owner
Company Name:	UB DISTRIBUTOR L.L.C.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1213 GRAND STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 497-2407
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	92
Affiliation Type:	Mail Contact
Company Name:	UB DISTRIBUTORS L.L.C.
Contact Type:	Not reported
Contact Name:	WAREHOUSE OPERTATIONS MGR
Address1:	1213-17 GRAND STREET

UNION BEER DIST. L.L.C. (Continued) **U000408173**

Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 497-2407
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	92
Affiliation Type:	Facility Operator
Company Name:	UNION BEER DIST. L.L.C.
Contact Type:	Not reported
Contact Name:	MICHAEL BROPHY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-2407
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	92
Affiliation Type:	Emergency Contact
Company Name:	UB DISTRIBUTOR L.L.C.
Contact Type:	Not reported
Contact Name:	MICHAEL BROPHY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 389-5059
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank ID:	30375
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	09/01/1998
Date Tank Closed:	09/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel

UNION BEER DIST. L.L.C. (Continued) **U000408173**

Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 10
Date Test: 05/01/1996
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
G99 - Tank Secondary Containment - Other
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

Tank Number: 002
Tank ID: 30376
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 4000
Install Date: 09/01/1998
Date Tank Closed: 09/01/1998
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: 10
Date Test: 05/01/1996
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
G99 - Tank Secondary Containment - Other
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

Tank Number: 003
Tank ID: 30377
Tank Status: Closed - Removed
Material Name: Closed - Removed

UNION BEER DIST. L.L.C. (Continued) **U000408173**

Capacity Gallons:	4000
Install Date:	09/01/1998
Date Tank Closed:	09/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	10
Date Test:	05/01/1996
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
G99 - Tank Secondary Containment - Other
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

Tank Number:	004
Tank ID:	30378
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
G99 - Tank Secondary Containment - Other
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

UNION BEER DIST. L.L.C. (Continued) **U000408173**

Tank Number:	005
Tank ID:	30379
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
G99 - Tank Secondary Containment - Other
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

Tank Number:	006
Tank ID:	30380
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
G99 - Tank Secondary Containment - Other
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping

UNION BEER DIST. L.L.C. (Continued) **U000408173**

D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number: 007
Tank ID: 30381
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
G99 - Tank Secondary Containment - Other

Tank Number: 008
Tank ID: 30382
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

UNION BEER DIST. L.L.C. (Continued) **U000408173**

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
G99 - Tank Secondary Containment - Other

Tank Number:	009
Tank ID:	30383
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
G99 - Tank Secondary Containment - Other
A00 - Tank Internal Protection - None

L115 **1213 GRAND STREET** **NY LTANKS** **S103479685**
North **1213 GRAND STREET** **NY Spills** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.143 mi.
756 ft. **Site 8 of 8 in cluster L**

Relative: **Lower**
Actual: **7 ft.**

LTANKS:

Name:	UB DISTRIBUTORS
Address:	1213 GRAND STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9807882 / 2002-05-15
Facility ID:	9807882
Site ID:	290514
Spill Date:	1998-09-28
Spill Cause:	Tank Overfill

1213 GRAND STREET (Continued) **S103479685**

Spill Source:	Commercial/Industrial
Spill Class:	B2
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1998-09-28
CID:	211
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1998-09-28
Spill Record Last Update:	2002-05-15
Spiller Name:	STEVE BRAUN
Spiller Company:	UB DISTRIBUTORS
Spiller Address:	1213 GRAND ST
Spiller County:	001
Spiller Contact:	STEVE BRAUN
Spiller Phone:	(718) 444-3400
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	86699
DEC Memo:	""
Remarks:	"during tank closure caller found soil contamination by top of tank cause appears to be overfill"

All Materials:

Site ID:	290514
Operable Unit ID:	1065455
Operable Unit:	01
Material ID:	315423
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	290514
Operable Unit ID:	1065455
Operable Unit:	01
Material ID:	315422
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

1213 GRAND STREET (Continued) **S103479685**

SPILLS:

Name:	UNION BEER FACILITY
Address:	1213 GRAND ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1207649 / 2012-12-27
Facility ID:	1207649
Facility Type:	ER
DER Facility ID:	424999
Site ID:	470708
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	2401
Spill Date:	2012-10-30
Investigator:	vszhune
Referred To:	Not reported
Reported to Dept:	2012-10-30
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2012-10-30
Spill Record Last Update:	2013-04-26
Spiller Name:	MICHAEL SEMMINELLO
Spiller Company:	UNION BEER FACILITY
Spiller Address:	1213 GRAND ST
Spiller Company:	999
Contact Name:	MICHAEL SEMMINELLO
DEC Memo:	"Location is English Kills section of Newtown Creek . Sangesland spoke to Tracy at spill center for owner. She said the canal overflowed into the basement, knocked over drums of oil, oil floated on top of canal water and spilled back into the canal. Facility has no power. No cleanup happening yet. 10/30/12- Zhune responded to this site and spoke to Tim 347-351-1166. He brougt me to the truck mechanic shop but I could not get inside becouse he had no keys to open the door. I saw oil (black oil) outside the shop and a heavy rainbow sheen in the water (Gowanus canal). Tim said tomorrow the Environmental Company is going to do the clean up. 10/31/12-Zhune spoke to tracy. She said Environmental Products and Service are going to clean tha spill. She said call J. Bradshw 518-470-0010 and find out if they are going to do the the clean up. Zhune called J. Bradshw at 2:00 PM. he said we are going to the site now. 12/27/12-Trace Murphy from Spill Canter Inc. emailed the spill cloure letter provided by Environmental Products & Services of Vermont Inc. dated December 21, 2012. On October 31, 2012, Environmental Products and Servises of Vermont Inc. was contacted to respond to a motor oil release of aproximately 400 gallons located at Transervice Logistics. The motor oil was located in drums within the building. The canal adjacent to the property fooded and caused the drums to spill. The motor oil then covered the duck floor and parking lot outside of the building. The area impacted by the oil was absorbed with speedi-dry,

1213 GRAND STREET (Continued) **S103479685**

sweep it up, and placed into drums for disposal. the parking lot and interior floor was pressure washed. a total of 4 drums of oil soaked debris were generated snd 2 drums of liquid for disposal. The drums were removed from site and trasnported to Environmental Products & Service of Vermont Inc. in the Port of Albany, New York recycling Disposal. Spill Closed. "

Remarks: "Storm related: water came into basement of facility tipping over 55 gal drums with motor oil & used oil. Cleanup is pending."

All Materials:

Site ID:	470708
Operable Unit ID:	1220568
Operable Unit:	01
Material ID:	2219184
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	400.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

Name:	1213 GRAND STREET
Address:	1213 GRAND STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9512436 / 2002-05-15
Facility ID:	9512436
Facility Type:	ER
DER Facility ID:	86699
Site ID:	97266
DEC Region:	2
Spill Cause:	Other
Spill Class:	B3
SWIS:	2401
Spill Date:	1995-01-04
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1996-01-05
CID:	216
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-01-05
Spill Record Last Update:	2002-05-15
Spiller Name:	ROMEO SANTOS
Spiller Company:	GING TRUCK LEASEING CORP
Spiller Address:	1213 GRAND STREET
Spiller Company:	001
Contact Name:	JOE DEMARCO
DEC Memo:	""

1213 GRAND STREET (Continued) **S103479685**

Remarks: "CALLER TOOK SOIL SAMPLES FOUND SOME CONTAMINATION AT ABOVE BUSSINESS AND THE SAMPLES ARE BEING SENT OUT FOR TESTING "

All Materials:

Site ID:	97266
Operable Unit ID:	1026657
Operable Unit:	01
Material ID:	356180
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

M116 **COOPER RECYCLING; LLC.** **NY SWF/LF** **S103517663**
South **123 VARICK AVENUE** **NY Spills** **N/A**
1/8-1/4 **BROOKLYN, NY 11237** **NY Financial Assurance**
0.146 mi. **NY MANIFEST**
771 ft. **Site 4 of 13 in cluster M** **NY SPDES**

Relative:
Lower

Actual:
11 ft.

SWF/LF:

Name:	WASTE MANAGEMENT OF NY; LLC
Address:	123 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	TARA HEMMER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[24W89]
Active:	No
East Coordinate:	590500
North Coordinate:	4507400
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Not reported
Authorization #:	2-6104-00013
Authorization Date:	10/30/1996
Expiration Date:	10/30/2001
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

COOPER RECYCLING; LLC. (Continued) **S103517663**

Name:	WASTE MANAGEMENT OF NY; LLC
Address:	123 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	TARA HEMMER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24T89]
Active:	No
East Coordinate:	590500
North Coordinate:	4507400
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Not reported
Authorization #:	2-6104-00013
Authorization Date:	10/30/1996
Expiration Date:	10/30/2001
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

Name:	COOPER RECYCLING; LLC.
Address:	123 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	7185335398
Owner Name:	Adrienne Cooper
Owner Type:	Private
Owner Address:	123 Varick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	Not reported
Owner Phone:	7184974431
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24W89]
Active:	No
East Coordinate:	590588

COOPER RECYCLING; LLC. (Continued) **S103517663**

North Coordinate: 4507083
Accuracy Code: 4.2 - Utilization of GIS and existing spatial data
Regulatory Status: Permit
Waste Type: Not reported
Authorization #: Not reported
Authorization Date: Not reported
Expiration Date: Not reported
Operator Name: Cooper Recycling
Operator Type: Private
Laste Date: Not reported

Name: COOPER RECYCLING; LLC.
Address: 123 VARICK AVENUE
City,State,Zip: BROOKLYN, NY 11237
Flag: ACTIVE
Region Code: 2
Phone Number: 7185335398
Owner Name: Adrienne Cooper
Owner Type: Private
Owner Address: 123 Varick Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11237
Owner Email: Not reported
Owner Phone: 7184974431
Contact Name: Not reported
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: CDDHRF - permit
Activity Number: [24CP0089]
Active: Yes
East Coordinate: 590497
North Coordinate: 4507117
Accuracy Code: Not reported
Regulatory Status: Permit
Waste Type: Construction & Demolition Debris;Brick
Authorization #: 2-6104-00012/00003
Authorization Date: 4/30/2020
Expiration Date: 4/29/2025
Operator Name: Cooper Recycling
Operator Type: Private
Laste Date: Not reported

SPILLS:
Name: SPILL NUMBER 0204059
Address: 123 VARICK AVE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 0204059 / 2002-07-30
Facility ID: 0204059
Facility Type: ER
DER Facility ID: 251293
Site ID: 289786
DEC Region: 2
Spill Cause: Other
Spill Class: C3

COOPER RECYCLING; LLC. (Continued) **S103517663**

SWIS:	2401
Spill Date:	2002-07-18
Investigator:	MXTIPPLE
Referred To:	Not reported
Reported to Dept:	2002-07-18
CID:	199
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2002-07-18
Spill Record Last Update:	2002-07-30
Spiller Name:	MIKE BAVARO
Spiller Company:	CITY & COUNTY PAVING CO
Spiller Address:	11-21 154TH ST
Spiller Company:	001
Contact Name:	JAY KAPLAN
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE 7/23/2002 SPOKE WITH JAY KAPLAN, HE WILL SEND IN PHOTOS AND MANIFESTS FOR CLOSURE"
Remarks:	"city and county waste truck was dumping at the transfer station and a container that was ill marked tipped over spilling the materal - all state power vac. is enroute for clean up - they should be able to recover all materal as it spilled to concrete "

All Materials:

Site ID:	289786
Operable Unit ID:	856865
Operable Unit:	01
Material ID:	518318
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	150.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	WASTE MANAG.
Address:	123 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0512331 / 2006-03-28
Facility ID:	0512331
Facility Type:	ER
DER Facility ID:	251293
Site ID:	358625
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	2006-01-24

COOPER RECYCLING; LLC. (Continued) **S103517663**

Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	2006-01-24
CID:	408
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-01-24
Spill Record Last Update:	2006-03-28
Spiller Name:	JAY KAPLAN
Spiller Company:	WASTE MANAG.
Spiller Address:	123 VARICK AVE
Spiller Company:	001
Contact Name:	JAY KAPLAN
DEC Memo:	"Off hours 01/31/06 Sharif// Left a messege for Jay Kaplan,(718)533-5310 to follow up the clean up. 03/21/06 Sharif Rahman- I called Jay Kaplan again and left a messege for him to call DEC back. 03/28/06 Sharif Rahman- Rec'd waste disposal manifest and fact sheet from Waste Management(WM).NFA required."
Remarks:	"filter broke, clean up crews are schedualed to arrive in the morning. Contained within an oil/water seperator."

All Materials:

Site ID:	358625
Operable Unit ID:	1115862
Operable Unit:	01
Material ID:	2105970
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	WASTE MANAGMENT OF NY
Address:	123 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9805562 / 2012-09-25
Facility ID:	9805562
Facility Type:	ER
DER Facility ID:	251293
Site ID:	311469
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	2401
Spill Date:	1998-08-04
Investigator:	VXBREVDO
Referred To:	Not reported

COOPER RECYCLING; LLC. (Continued) **S103517663**

Reported to Dept:	1998-08-04
CID:	281
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	1998-08-04
Spill Record Last Update:	2012-09-25
Spiller Name:	K RADHAKRISHNAN
Spiller Company:	WASTE MANAGMENT OF NY
Spiller Address:	123 VARICK AVE
Spiller Company:	001
Contact Name:	KARTHIK RADHAKRISHNAN
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MULQUEEN 06/16/06: This spill is transferred from Mike Mulqueen to Mr. Koon Tang. 09/25/2012 - This is tank failure. Accoring to spill report spilled product was contained and all recovered. No data or information exists to indicate soil or groundwater contamiantion. Facility is covered with asphalt and/or buildings. No threat of exposure exists. Spill case can be closed. Closed effective September 25, 2012. V. Brevdo"
Remarks:	"TANK FAILURE AT ABOVE LOCATION. MATERIAL CONTAINED AND ALL RECOVERED. NO CALL BACK REQUESTED."

All Materials:

Site ID:	311469
Operable Unit ID:	1066749
Operable Unit:	01
Material ID:	320302
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20.00
Units:	G
Recovered:	20.00
Oxygenate:	Not reported

NY Financial Assurance 1:

Name:	COOPER RECYCLING; LLC.
Address:	123 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY
Owner Name:	Adrienne Cooper
Region:	2
Estimate Type:	Closure
Estimate Amount:	423,000
Estimate Date:	03/01/2001
Mechanism:	Surety bond - Performance
Mechanism Amount:	520,000
Issue Date:	03/10/2014
Activity Number:	24CP0089

COOPER RECYCLING; LLC. (Continued) **S103517663**

Activity Description: CDDHRF - permit

NY MANIFEST:

Name:	ALLIED SANITATION
Address:	123 VARICK AVE
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP000889022
Facility Status:	Not reported
Location Address 1:	123 VARICK AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP000889022
Mailing Name:	ALLIED SANITATION
Mailing Contact:	ANTHONY CUCINOTTA
Mailing Address 1:	123 VARICK AVENUE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7187794650

SPDES:

Name:	VARICK II
Address:	123 VARICK AVE
City,State,Zip:	BROOKLYN, NY 11237
Permit Number:	NY0201260
State-Region:	02
Expiration Date:	07/31/2011
Current Major Minor Status:	Minor
Primary Facility SIC Code:	4953
State Water Body Name:	ENGLISH KILLS
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	DMR
Lat/Long:	40.709722 / -73.930556
DMR Cognizant Official:	JAY KAPLAN, ENVIR MGR
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	WASTE MANAGEMENT OF NY, LLC
Non-Gov Permit Street Address:	VARICK II
Non-Gov Permit Supplemental Location:	123 VARICK AVE

COOPER RECYCLING; LLC. (Continued) **S103517663**

Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11237
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	WASTE MANAGEMENT OF NY, LLC
Non-Gov Facility Street Address:	VARICK II
Non-Gov Facility Supplemental Location:	123 VARICK AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	02030201010
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Name:	VARICK II
Address:	123 VARICK AVE
City,State,Zip:	BROOKLYN, NY 11237
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	WASTE MANAGEMENT OF NY, LLC
Non-Gov Permit Street Address:	VARICK II
Non-Gov Permit Supplemental Location:	123 VARICK AVE
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11237
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	WASTE MANAGEMENT OF NY, LLC
Non-Gov Facility Street Address:	VARICK II
Non-Gov Facility Supplemental Location:	123 VARICK AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	02030201010
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Name:	VARICK II
Address:	123 VARICK AVE
City,State,Zip:	BROOKLYN, NY 11237
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047

COOPER RECYCLING; LLC. (Continued) **S103517663**

Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	WASTE MGMT OF NY LLC
Non-Gov Permit Street Address:	123 VARICK AVE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11237
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	WASTE MANAGEMENT OF NY, LLC
Non-Gov Facility Street Address:	VARICK II
Non-Gov Facility Supplemental Location:	123 VARICK AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	02030201010
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Name:	VARICK II
Address:	123 VARICK AVE
City,State,Zip:	BROOKLYN, NY 11237
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	WASTE MGMT OF NY LLC
Non-Gov Permit Street Address:	123 VARICK AVE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11237
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	WASTE MANAGEMENT OF NY, LLC
Non-Gov Facility Street Address:	VARICK II
Non-Gov Facility Supplemental Location:	123 VARICK AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	02030201010
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

M117 **WASTE MANAGEMENT OF NEW YORK LLC** **RCRA-SQG** **1000248669**
South **123 VARICK AVE** **US AIRS** **NYD982744815**
1/8-1/4 **BROOKLYN, NY 11237** **PA MANIFEST**
0.146 mi. **NY MANIFEST**
771 ft. **Site 5 of 13 in cluster M** **NJ MANIFEST**

Relative: **Lower**
Actual: **11 ft.**

RCRA-SQG:

Date Form Received by Agency:	20070101
Handler Name:	WASTE MANAGEMENT OF NEW YORK LLC
Handler Address:	123 VARICK AVE
Handler City,State,Zip:	BROOKLYN, NY 11237
EPA ID:	NYD982744815
Contact Name:	JAY KAPLAN
Contact Address:	VARICK AVE
Contact City,State,Zip:	BROOKLYN, NY 11237
Contact Telephone:	718-533-5310
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	VARICK AVE
Mailing City,State,Zip:	BROOKLYN, NY 11237
Owner Name:	WASTE MANAGEMENT OF NEW YORK LLC
Owner Type:	Private
Operator Name:	WASTE MANAGEMENT OF NEW YORK LLC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

WASTE MANAGEMENT OF NEW YORK LLC (Continued) **1000248669**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D027
Waste Description:	1,4-DICHLOROBENZENE

WASTE MANAGEMENT OF NEW YORK LLC (Continued) **1000248669**

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: NONE
Waste Description: Not Defined

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: WASTE MGMT
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 123 VARICK AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-386-7900
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: WASTE MANAGEMENT OF NEW YORK LLC
Legal Status: Private
Date Became Current: 19801231
Date Ended Current: Not reported
Owner/Operator Address: 123 VARICK AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-533-5310
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: WASTE MGMT
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 123 VARICK AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-386-7900
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: WASTE MANAGEMENT OF NEW YORK LLC
Legal Status: Private
Date Became Current: 19801231
Date Ended Current: Not reported
Owner/Operator Address: 123 VARICK AVE
Owner/Operator City,State,Zip: BROOKLYN, NY 11237
Owner/Operator Telephone: 718-533-5310
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

WASTE MANAGEMENT OF NEW YORK LLC (Continued) **1000248669**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	WASTE MANAGEMENT OF NEW YORK LLC
Legal Status:	Private
Date Became Current:	19801231
Date Ended Current:	Not reported
Owner/Operator Address:	123 VARICK AVE
Owner/Operator City,State,Zip:	BROOKLYN, NY 11237
Owner/Operator Telephone:	718-533-5310
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	WASTE MANAGEMENT OF NEW YORK LLC
Legal Status:	Private
Date Became Current:	19801231
Date Ended Current:	Not reported
Owner/Operator Address:	123 VARICK AVE
Owner/Operator City,State,Zip:	BROOKLYN, NY 11237
Owner/Operator Telephone:	718-533-5310
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19950502
Handler Name:	STAR RECYCLING - WASTE MGMT
Federal Waste Generator Description:	Not reported
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20020521
Handler Name:	STAR RECYCLING - WASTE MGMT
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060101
Handler Name:	WASTE MANAGEMENT OF NEW YORK LLC
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No

WASTE MANAGEMENT OF NEW YORK LLC (Continued) **1000248669**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: WASTE MANAGEMENT OF NEW YORK LLC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19980318
Handler Name: STAR RECYCLING - WASTE MGMT
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20031112
Handler Name: WASTE MANAGEMENT OF NEW YORK LLC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

WASTE MANAGEMENT OF NEW YORK LLC (Continued) **1000248669**

US AIRS MINOR:
Envid: 1000248669
Region Code: 02
Programmatic ID: AIR NY0000002610400013
Facility Registry ID: 110004433104
D and B Number: Not reported
Primary SIC Code: 4953
NAICS Code: 999999
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 02
Programmatic ID: AIR NY0000002610400013
Facility Registry ID: 110004433104
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-03-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 02
Programmatic ID: AIR NY0000002610400013
Facility Registry ID: 110004433104
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-08-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Manifest Details:
Year: 2006
Manifest Number: PAH132852
Manifest Type: TSD Copy
Generator EPA Id: NYD982744815
Generator Date: 05/10/2006
Mailing Address: Not reported
Mailing City,St,Zip: Not reported
Contact Name: Not reported
Contact Phone: Not reported
TSD EPA Id: PAD067098822
TSD Date: Not reported
TSD Facility Name: CYCLE CHEM INC
TSD Facility Address: 550 INDUSTRIAL DRIVE
TSD Facility City: LEWISBERRY
TSD Facility State: PA
Facility Telephone: 718-533-5310
Page Number: 1

WASTE MANAGEMENT OF NEW YORK LLC (Continued) **1000248669**

Line Number: 2
Waste Number: D002
Container Number: 3
Container Type: Fiberboard or plastic drums, barrels, kegs
Waste Quantity: 15
Unit: Gallons (liquids only)
Handling Code: Not reported
TSP EPA Id: Not reported
Date TSP Sig: Not reported

Year: 2006
Manifest Number: PAH132852
Manifest Type: TSD Copy
Generator EPA Id: NYD982744815
Generator Date: 05/10/2006
Mailing Address: Not reported
Mailing City,St,Zip: Not reported
Contact Name: Not reported
Contact Phone: Not reported
TSD EPA Id: PAD067098822
TSD Date: Not reported
TSD Facility Name: CYCLE CHEM INC
TSD Facility Address: 550 INDUSTRIAL DRIVE
TSD Facility City: LEWISBERRY
TSD Facility State: PA
Facility Telephone: 718-533-5310
Page Number: 1
Line Number: 1
Waste Number: D001
Container Number: 1
Container Type: Metal drums, barrels, kegs
Waste Quantity: 400
Unit: Pounds
Handling Code: Not reported
TSP EPA Id: Not reported
Date TSP Sig: Not reported

NY MANIFEST:
Name: ALLIED SANITATION CORP
Address: 123 VARICK AVE
City,State,Zip: BROOKLYN, NY 11237
Country: USA
EPA ID: NYD982744815
Facility Status: Not reported
Location Address 1: 123 VARICK AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11237
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD982744815
Mailing Name: ALLIED SANITATION CORP
Mailing Contact: TONY CUCINOTTA

WASTE MANAGEMENT OF NEW YORK LLC (Continued) **1000248669**

Mailing Address 1:	123 VARICK AVE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7183867900

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NYR000080549
Trans2 State ID:	NJD982792384
Generator Ship Date:	11/13/2006
Trans1 Recv Date:	11/13/2006
Trans2 Recv Date:	11/13/2006
TSD Site Recv Date:	11/14/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD982744815
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	000186410JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H061
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	40
Units:	P - Pounds
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Waste Code:	D001
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

WASTE MANAGEMENT OF NEW YORK LLC (Continued) **1000248669**

NJ MANIFEST:

EPA Id:	NYD982744815
Mail Address:	123 VARICK AVENUE
Mail City/State/Zip:	BROOKLYN 11237
Facility Phone:	7185335310
Emergency Phone:	Not reported
Contact:	JAY KAPLAN
Comments:	Not reported
SIC Code:	Not reported
County:	00
Municipal:	00
Previous EPA Id:	Not reported
Gen Flag:	X
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	NJA5210625
EPA ID:	NYD982744815
Date Shipped:	01/06/2005
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NYR000080549
Transporter 2 EPA ID:	NJD986607380
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	01/06/2005
Date Trans2 Transported Waste:	01/07/2005
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	01/07/2005
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	04250522

WASTE MANAGEMENT OF NEW YORK LLC (Continued) **1000248669**

Was Load Rejected:	BROOKLYN 11237
Reason Load Was Rejected:	Not reported
Manifest Number:	NJA5287893
EPA ID:	NYD982744815
Date Shipped:	08/15/2006
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJD982792384
Transporter 2 EPA ID:	NJD982792384
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/15/2006
Date Trans2 Transported Waste:	08/21/2006
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/21/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	10020625
Was Load Rejected:	BROOKLYN 11237
Reason Load Was Rejected:	Not reported
Manifest Number:	NJA5214113
EPA ID:	NYD982744815
Date Shipped:	07/22/2005
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NYR000080549
Transporter 2 EPA ID:	NJD980525786
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported

WASTE MANAGEMENT OF NEW YORK LLC (Continued) **1000248669**

Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/22/2005
Date Trans2 Transported Waste:	08/03/2005
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/03/2005
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	12050521
Was Load Rejected:	BROOKLYN 11237
Reason Load Was Rejected:	Not reported

M118 **WASTE MANAGEMENT OF NEW YORK, LLC** **NY AST** **U003396750**
South **123 VARICK AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.146 mi.
771 ft. **Site 6 of 13 in cluster M**

Relative:
Lower

Actual:
11 ft.

AST:

Name:	WASTE MANAGEMENT OF NEW YORK, LLC
Address:	123 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-602618
Program Type:	PBS
UTM X:	590540.20583
UTM Y:	4507108.82098
Expiration Date:	N/A
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	24575
Affiliation Type:	Facility Owner
Company Name:	WASTE MANAGEMENT OF NEW YORK, LLC.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	123 VARICK AVENUE
Address2:	Not reported

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **U003396750**

City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 533-5310
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-07-22

Site Id:	24575
Affiliation Type:	Mail Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK, LLC.
Contact Type:	ENVIRONMENTAL MANAGER
Contact Name:	JAY KAPLAN
Address1:	123 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 533-5310
EMail:	JKAPLAN2@HOTMAIL.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2009-09-29

Site Id:	24575
Affiliation Type:	Facility Operator
Company Name:	WASTE MANAGEMENT OF NEW YORK, LLC
Contact Type:	Not reported
Contact Name:	RAYMOND HUBLALL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 533-5367
EMail:	Not reported
Fax Number:	Not reported
Modified By:	EXROSSAN
Date Last Modified:	2005-03-28

Site Id:	24575
Affiliation Type:	Emergency Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK, LLC.
Contact Type:	Not reported
Contact Name:	JAY KAPLAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 533-5310
EMail:	Not reported

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **U003396750**

Fax Number:	Not reported
Modified By:	EXROSSAN
Date Last Modified:	2005-03-28

Tank Info:

Tank Number:	001
Tank Id:	50733
Material Code:	9999
Common Name of Substance:	Other

Equipment Records:

	G00 - Tank Secondary Containment - None
	D00 - Pipe Type - No Piping
	H00 - Tank Leak Detection - None
	I00 - Overfill - None
	F00 - Pipe External Protection - None
	C00 - Pipe Location - No Piping
	A00 - Tank Internal Protection - None
	B01 - Tank External Protection - Painted/Asphalt Coating
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	11/01/1997
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	11/01/1997
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	other

Tank Number:	002
Tank Id:	50734
Material Code:	9999
Common Name of Substance:	Other

Equipment Records:

	J02 - Dispenser - Suction Dispenser
	G00 - Tank Secondary Containment - None
	C01 - Pipe Location - Aboveground
	H00 - Tank Leak Detection - None
	I00 - Overfill - None
	F00 - Pipe External Protection - None
	A00 - Tank Internal Protection - None
	B01 - Tank External Protection - Painted/Asphalt Coating
	D99 - Pipe Type - Other
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **U003396750**

Pipe Model:	Not reported
Install Date:	11/01/1997
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	11/01/1997
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	other

Tank Number:	003
Tank Id:	50735
Material Code:	0013
Common Name of Substance:	Lube Oil

Equipment Records:

J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
E00 - Piping Secondary Containment - None
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/01/1990
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	lube oil

Tank Number:	004
Tank Id:	50736
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

J00 - Dispenser - None
I04 - Overfill - Product Level Gauge (A/G)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **U003396750**

D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
A00 - Tank Internal Protection - None

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/01/1990
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

Tank Number:	005
Tank Id:	50737
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D00 - Pipe Type - No Piping
H00 - Tank Leak Detection - None
I00 - Overfill - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	10/01/1990
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/01/1990
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	diesel

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **U003396750**

Tank Number: 006
Tank Id: 50738
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:

J00 - Dispenser - None
I04 - Overfill - Product Level Gauge (A/G)
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
E00 - Piping Secondary Containment - None
A01 - Tank Internal Protection - Epoxy Liner
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
K00 - Spill Prevention - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Location: Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 01/01/1990
Capacity Gallons: 1100
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 07/28/2009
Register: True
Modified By: NRLOMBAR
Last Modified: 04/14/2017
Material Name: waste oil/used oil

Tank Number: 007
Tank Id: 53500
Material Code: 0013
Common Name of Substance: Lube Oil

Equipment Records:

J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L09 - Piping Leak Detection - Exempt Suction Piping
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Location: Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type: Steel/Carbon Steel/Iron

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **U003396750**

Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	11/01/1997
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	lube oil

Tank Number:	008
Tank Id:	53501
Material Code:	0010
Common Name of Substance:	Hydraulic Oil

Equipment Records:

J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	11/01/1997
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	hydraulic oil

Tank Number:	009
Tank Id:	54991
Material Code:	0010
Common Name of Substance:	Hydraulic Oil

Equipment Records:

J02 - Dispenser - Suction Dispenser

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **U003396750**

I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/01/1990
Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	hydraulic oil

P119 **MIONE TRANSIT MIX** **RCRA NonGen / NLR** **1000311791**
ENE **1301 METROPOLITAN AVE** **FINDS** **NYD157709486**
1/8-1/4 **BROOKLYN, NY 11237** **ECHO**
0.149 mi.
788 ft. **Site 1 of 4 in cluster P**

Relative: **Lower**
Actual: **10 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20070101
Handler Name:	MIONE TRANSIT MIX	
Handler Address:		1301 METROPOLITAN AVE
Handler City,State,Zip:		BROOKLYN, NY 11237-1102
EPA ID:		NYD157709486
Contact Name:		Not reported
Contact Address:		METROPOLITAN AVE
Contact City,State,Zip:		BROOKLYN, NY 11237
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		METROPOLITAN AVE
Mailing City,State,Zip:		BROOKLYN, NY 11237
Owner Name:		UNKNOWN

MIONE TRANSIT MIX (Continued) **1000311791**

Owner Type:	Private
Operator Name:	UNKNOWN
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported

MIONE TRANSIT MIX (Continued) **1000311791**

Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNKNOWN
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNKNOWN
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNKNOWN
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990708
Handler Name: MIONE TRANSIT MIX	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported

MIONE TRANSIT MIX (Continued) **1000311791**

Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: MIONE TRANSIT MIX
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: MIONE TRANSIT MIX
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19890705
Handler Name: MIONE TRANSIT MIX
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110009470018

MIONE TRANSIT MIX (Continued) **1000311791**

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000311791
Registry ID:	110009470018
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009470018
Name:	MIONE TRANSIT MIX
Address:	1301 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11237

P120 **WASTE MANAGEMENT OF NY; INC. (REG** **NY SWF/LF** **S105841926**
ENE **1301 METROPOLITAN AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.149 mi.
788 ft. **Site 2 of 4 in cluster P**

Relative: **Lower**
Actual: **10 ft.**

SWF/LF:

Name:	WASTE MANAGEMENT OF NY; INC. (REG
Address:	1301 METROPOLITAN AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	TARA HEMMER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[24WD4]
Active:	No
East Coordinate:	590841
North Coordinate:	4507554
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported

WASTE MANAGEMENT OF NY; INC. (REG (Continued) **S105841926**

Operator Name: Not reported
Operator Type: Not reported
Laste Date: Not reported

P121 **1301 METROPOLITAN AVE.** **NY UST** **U004277390**
ENE **1301 METROPOLITAN AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.149 mi.
788 ft. **Site 3 of 4 in cluster P**

Relative:
Lower

Actual:
10 ft.

UST:
Name: 1301 METROPOLITAN AVE.
Address: 1301 METROPOLITAN AVE
City,State,Zip: BROOKLYN, NY 11237
Id/Status: 2-612853 / Unregistered
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: Not reported
UTM Y: Not reported
Site Type: Other

Affiliation Records:
Site Id: 566793
Affiliation Type: Facility Owner
Company Name: PEABODY WEBSTER HOLDINGS LLC
Contact Type: Not reported
Contact Name: Not reported
Address1: 4106 GLENWOOD ROAD
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11210
Country Code: 001
Phone: (718) 859-6500
EMail: Not reported
Fax Number: Not reported
Modified By: MRBARROW
Date Last Modified: 2018-02-13

Site Id: 566793
Affiliation Type: Mail Contact
Company Name: Not reported
Contact Type: Not reported
Contact Name: CONSTANCE CINCOTTA
Address1: 4106 GLENWOOD ROAD
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11210
Country Code: 001
Phone: (718) 859-6500
EMail: LAURA@GLENWOODMASON.COM
Fax Number: Not reported
Modified By: MRBARROW
Date Last Modified: 2018-02-13

1301 METROPOLITAN AVE. (Continued) **U004277390**

Site Id:	566793
Affiliation Type:	Emergency Contact
Company Name:	PEABODY WEBSTER HOLDINGS LLC
Contact Type:	Not reported
Contact Name:	CONSTANCE CINCOTTA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 859-6500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2018-02-13

Tank Info:

Tank Number:	1A
Tank ID:	275034
Tank Status:	Unregistered
Material Name:	Unregistered
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass reinforced plastic [FRP]
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MRBARROW
Last Modified:	02/13/2018

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
J00 - Dispenser - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping

Tank Number:	1B
Tank ID:	275035
Tank Status:	Unregistered
Material Name:	Unregistered
Capacity Gallons:	550
Install Date:	Not reported

1301 METROPOLITAN AVE. (Continued) **U004277390**

Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
J00 - Dispenser - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping

Tank Number: 1C
Tank ID: 275036
Tank Status: Unregistered
Material Name: Unregistered
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

J00 - Dispenser - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
G02 - Tank Secondary Containment - Vault (w/access)

1301 METROPOLITAN AVE. (Continued) **U004277390**

Tank Number: 1D
Tank ID: 275037
Tank Status: Unregistered
Material Name: Unregistered
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

D00 - Pipe Type - No Piping
L00 - Piping Leak Detection - None
G02 - Tank Secondary Containment - Vault (w/access)
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J00 - Dispenser - None

Tank Number: 1E
Tank ID: 275038
Tank Status: Unregistered
Material Name: Unregistered
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

D00 - Pipe Type - No Piping
L00 - Piping Leak Detection - None
G02 - Tank Secondary Containment - Vault (w/access)
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None

1301 METROPOLITAN AVE. (Continued) **U004277390**

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J00 - Dispenser - None

Tank Number: 1F
Tank ID: 275039
Tank Status: Unregistered
Material Name: Unregistered
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
J00 - Dispenser - None
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
D00 - Pipe Type - No Piping
L00 - Piping Leak Detection - None
G02 - Tank Secondary Containment - Vault (w/access)

Tank Number: 1G
Tank ID: 275040
Tank Status: Unregistered
Material Name: Unregistered
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
J00 - Dispenser - None

1301 METROPOLITAN AVE. (Continued) **U004277390**

H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping

Tank Number: 1H
Tank ID: 275041
Tank Status: Unregistered
Material Name: Unregistered
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
J00 - Dispenser - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping

Tank Number: 1I
Tank ID: 275042
Tank Status: Unregistered
Material Name: Unregistered
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported

1301 METROPOLITAN AVE. (Continued) **U004277390**

Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

J00 - Dispenser - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
L00 - Piping Leak Detection - None
G02 - Tank Secondary Containment - Vault (w/access)

Tank Number: 1J
Tank ID: 275043
Tank Status: Unregistered
Material Name: Unregistered
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
J00 - Dispenser - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None

Tank Number: 1K
Tank ID: 275044
Tank Status: Unregistered
Material Name: Unregistered
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True

1301 METROPOLITAN AVE. (Continued) **U004277390**

Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
J00 - Dispenser - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None

Tank Number: 1L
Tank ID: 275045
Tank Status: Unregistered
Material Name: Unregistered
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

J00 - Dispenser - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
L00 - Piping Leak Detection - None
G02 - Tank Secondary Containment - Vault (w/access)

Tank Number: 1M
Tank ID: 275046

1301 METROPOLITAN AVE. (Continued) **U004277390**

Tank Status: Unregistered
Material Name: Unregistered
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
J00 - Dispenser - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
K00 - Spill Prevention - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping

Tank Number: 1N
Tank ID: 275047
Tank Status: Unregistered
Material Name: Unregistered
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Fiberglass reinforced plastic [FRP]
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MRBARROW
Last Modified: 02/13/2018

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
J00 - Dispenser - None
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

1301 METROPOLITAN AVE. (Continued) **U004277390**

D00 - Pipe Type - No Piping
L00 - Piping Leak Detection - None

122
NW
1/8-1/4
0.150 mi.
794 ft.

Relative:
Lower

Actual:
-1 ft.

NEWTOWN CREEK SUPERFUND SITE
NEWTOWN CRK - N LAT 40.715192
NEW YORK, NY 99999

NPL **1011845384**
SEMS **NYN000206282**
RCRA-SQG
ROD
PRP
NY MANIFEST

NPL:

EPA Region:	2
EPA ID:	NYN000206282
Site ID:	206282
Name:	NEWTOWN CREEK
Address:	SOUTH END OF IVY HILL ROAD
City,State,Zip:	BROOKLYN, QUEENS, NY 11222
Federal:	N
Final Date:	2010-09-29 00:00:00
Latitude:	40.715192
Longitude:	-73.930762
Site Score:	50
NAI:	Not reported
Native American Entity:	Not reported

SEMS:

Site ID:	0206282
EPA ID:	NYN000206282
Name:	NEWTOWN CREEK
Address:	SOUTH END OF IVY HILL ROAD
Address 2:	Not reported
City,State,Zip:	BROOKLYN, QUEENS, NY 11222
Cong District:	12
FIPS Code:	Not reported
Latitude:	+40.715192
Longitude:	-073.930762
FF:	N
NPL:	Currently on the Final NPL
Non NPL Status:	Not reported

SEMS Detail:

Region:	02
Site ID:	0206282
EPA ID:	NYN000206282
Site Name:	NEWTOWN CREEK
NPL:	F
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	2008-08-15 05:00:00
Finish Date:	8/15/2008 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region: 02

NEWTOWN CREEK SUPERFUND SITE (Continued) **1011845384**

Site ID: 0206282
EPA ID: NYN000206282
Site Name: NEWTOWN CREEK
NPL: F
FF: N
OU: 00
Action Code: NP
Action Name: PROPOSED
SEQ: 1
Start Date: 2009-09-23 04:00:00
Finish Date: 9/23/2009 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 02
Site ID: 0206282
EPA ID: NYN000206282
Site Name: NEWTOWN CREEK
NPL: F
FF: N
OU: 00
Action Code: HR
Action Name: HAZRANK
SEQ: 1
Start Date: 2009-06-01 05:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 02
Site ID: 0206282
EPA ID: NYN000206282
Site Name: NEWTOWN CREEK
NPL: F
FF: N
OU: 01
Action Code: CO
Action Name: RI/FS
SEQ: 1
Start Date: 2010-02-05 05:00:00
Finish Date: 7/7/2011 5:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 02
Site ID: 0206282
EPA ID: NYN000206282
Site Name: NEWTOWN CREEK
NPL: F
FF: N
OU: 00
Action Code: NF
Action Name: NPL FINL
SEQ: 1
Start Date: 2010-09-29 04:00:00
Finish Date: 9/29/2010 4:00:00 AM
Qual: Not reported

NEWTOWN CREEK SUPERFUND SITE (Continued) **1011845384**

Current Action Lead:	EPA Perf
Region:	02
Site ID:	0206282
EPA ID:	NYN000206282
Site Name:	NEWTOWN CREEK
NPL:	F
FF:	N
OU:	01
Action Code:	TA
Action Name:	TECH ASSIST
SEQ:	1
Start Date:	2014-09-11 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	02
Site ID:	0206282
EPA ID:	NYN000206282
Site Name:	NEWTOWN CREEK
NPL:	F
FF:	N
OU:	01
Action Code:	TA
Action Name:	TECH ASSIST
SEQ:	2
Start Date:	2014-10-31 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	02
Site ID:	0206282
EPA ID:	NYN000206282
Site Name:	NEWTOWN CREEK
NPL:	F
FF:	N
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	3
Start Date:	2021-04-12 04:00:00
Finish Date:	4/12/2021 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	02
Site ID:	0206282
EPA ID:	NYN000206282
Site Name:	NEWTOWN CREEK
NPL:	F
FF:	N
OU:	01
Action Code:	BD
Action Name:	PRP RI/FS
SEQ:	1

NEWTOWN CREEK SUPERFUND SITE (Continued) **1011845384**

Start Date:	2011-07-07 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Ovrsght
Region:	02
Site ID:	0206282
EPA ID:	NYN000206282
Site Name:	NEWTOWN CREEK
NPL:	F
FF:	N
OU:	02
Action Code:	NK
Action Name:	PRP FS
SEQ:	1
Start Date:	2018-12-20 06:00:00
Finish Date:	4/12/2021 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

RCRA-SQG:

Date Form Received by Agency:	20120321
Handler Name:	NEWTOWN CREEK SUPERFUND SITE
Handler Address:	NEWTOWN CRK - N LAT 40.715192
Handler City,State,Zip:	NEW YORK, NY 99999
EPA ID:	NYN000206282
Contact Name:	JIM QUADRINI
Contact Address:	W GRAND AVE STE 300
Contact City,State,Zip:	MONTVALE, NJ 07645-1813
Contact Telephone:	201-930-9890 1012
Contact Fax:	201-930-9805
Contact Email:	JQUADRINI@ANCHORQEA.COM
Contact Title:	PARTNER ANCHOR QEA
EPA Region:	02
Land Type:	Other
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	W GRAND AVE STE 300
Mailing City,State,Zip:	MONTVALE, NJ 07645-1813
Owner Name:	CAROLINE KWAN-US EPA
Owner Type:	Private
Operator Name:	DAY PITNEY LLP
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No

NEWTOWN CREEK SUPERFUND SITE (Continued) **1011845384**

Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007

NEWTOWN CREEK SUPERFUND SITE (Continued) **1011845384**

Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D015
Waste Description: TOXAPHENE (C10 H10 CL8, TECHNICAL CHLORINATED CAMPHENE, 67-69 PERCENT CHLORINE)

Waste Code: D020
Waste Description: CHLORDANE

Waste Code: D031
Waste Description: HEPTACHLOR (AND ITS EPOXIDE)

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CAROLINE KWAN-US EPA
Legal Status:	Private
Date Became Current:	19800101
Date Ended Current:	Not reported
Owner/Operator Address:	290 BROADWAY
Owner/Operator City,State,Zip:	NEW YORK, NY 10007
Owner/Operator Telephone:	212-637-4275
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DAY PITNEY LLP
Legal Status:	Private
Date Became Current:	20120416
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20120321
Handler Name:	NEWTOWN CREEK SUPERFUND SITE
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

NEWTOWN CREEK SUPERFUND SITE (Continued) **1011845384**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 54162
NAICS Description: ENVIRONMENTAL CONSULTING SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

ROD:
No Details: No Details

PRP:
PRP Name:
APOLLO PETROLEUM TRANSPORT LLC
APOLLO PIPELINE LLC
APOLLO TRANSPORT INC
BP AMERICA HEADQUARTERS
BP AMERICA HEADQUARTERS
BP AMERICA HEADQUARTERS
BROOKLYN UNION GAS
BROOKLYN UNION GAS
BROOKLYN UNION GAS
EXXONMOBIL CORPORATION
EXXONMOBIL CORPORATION
EXXONMOBIL CORPORATION
GETTY PETROLEUM MARKETING INC
GETTY TERMINALS CORP
KINGS LAND REALTY INC
METRO BIOFUELS LLC
METRO ENERGY GROUP LLC
METRO FUEL OIL CO.
METRO PLUMBING SERVICES CORP
METRO TERMINALS CORP

Click this hyperlink while viewing on your computer to access
9 additional PRP: record(s) in the EDR Site Report.

NY MANIFEST:
Name: NEWTOWN CREEK SUPERFUND SITE
Address: NEWTOWN CRK - N LAT 40.715192
City,State,Zip: NEW YORK, NY 99999
Country: USA
EPA ID: NYN000206282
Facility Status: Not reported
Location Address 1: - VERNON BLVD
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: LONG ISLAND CITY
Location State: NY

NEWTOWN CREEK SUPERFUND SITE (Continued) **1011845384**

Location Zip:	11101
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYN000206282
Mailing Name:	NEWTOWN CREEK SUPERFUND SITE
Mailing Contact:	C/O ANCHOR QEA LLC
Mailing Address 1:	TICE BLVD - SUITE
Mailing Address 2:	Not reported
Mailing City:	WO0ODCLIFF LAKE
Mailing State:	NJ
Mailing Zip:	07677
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2015710912

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	CTD021816889
Trans2 State ID:	Not reported
Generator Ship Date:	10/31/2014
Trans1 Recv Date:	10/31/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/31/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYN000206282
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	CTD021816889
TSDF ID 2:	Not reported
Manifest Tracking Number:	013301186JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	55
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.

NEWTOWN CREEK SUPERFUND SITE (Continued) **1011845384**

Specific Gravity:	1
Waste Code:	F003
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

O123 **NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE** **RCRA-LQG** **1000791719**
WNW **1109 METROPOLITAN AVE** **FINDS** **NYD987032364**
1/8-1/4 **BROOKLYN, NY 11211** **ECHO**
0.151 mi. **NY MANIFEST**
799 ft. **Site 5 of 6 in cluster O** **NJ MANIFEST**

Relative: **Higher**
Actual: **16 ft.**

RCRA-LQG:

Date Form Received by Agency:	20160121
Handler Name:	NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE
Handler Address:	1109 METROPOLITAN AVE
Handler City,State,Zip:	BROOKLYN, NY 11211
EPA ID:	NYD987032364
Contact Name:	JOHN KURRE
Contact Address:	WATER ST 5TH FL
Contact City,State,Zip:	NEW YORK, NY 10041
Contact Telephone:	212-839-4019
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	State
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	VARICK AVE
Mailing City,State,Zip:	BROOKLYN, NY 11237
Owner Name:	NYCDOT
Owner Type:	State
Operator Name:	NYCDOT BRIDGES
Operator Type:	State
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported

NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE (Continued) **1000791719**

Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20190315
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D008
Waste Description:	LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NYCDOT
Legal Status:	Municipal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2 RECTOR ST 4TH FLOOR
Owner/Operator City,State,Zip:	NEW YORK, NY 10006
Owner/Operator Telephone:	212-788-1721
Owner/Operator Telephone Ext:	Not reported

NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE (Continued) **1000791719**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	NYCDOT
Legal Status:	State
Date Became Current:	19610215
Date Ended Current:	Not reported
Owner/Operator Address:	55 WATER ST 5TH FL
Owner/Operator City,State,Zip:	NEW YORK, NY 10041
Owner/Operator Telephone:	212-839-4019
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NYCDOT BRIDGES
Legal Status:	State
Date Became Current:	19621011
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	NYCDOT
Legal Status:	Municipal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2 RECTOR ST 4TH FLOOR
Owner/Operator City,State,Zip:	NEW YORK, NY 10006
Owner/Operator Telephone:	212-788-1721
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	NYCDOT
Legal Status:	Municipal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2 RECTOR ST 4TH FLOOR
Owner/Operator City,State,Zip:	NEW YORK, NY 10006
Owner/Operator Telephone:	212-788-1721
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20060101
Handler Name:	NYCDOT METROPOLITAN AVE BRG #2240290
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No

NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE (Continued) **1000791719**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: NYCDOT METROPOLITAN AVE BRG #2240290
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19930413
Handler Name: NYCDOT METROPOLITAN AVE BRG #2240290
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160121
Handler Name: NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: Not reported
Recognized Trader Exporter: Not reported
Spent Lead Acid Battery Importer: Not reported
Spent Lead Acid Battery Exporter: Not reported
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 238320
NAICS Description: PAINTING AND WALL COVERING CONTRACTORS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE (Continued) **1000791719**

FINDS:
Registry ID: 110008085623

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000791719
Registry ID:	110008085623
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008085623
Name:	NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE
Address:	1109 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY 11211

NY MANIFEST:

Name:	NYCDOT
Address:	METROPOLITAN AVE BRG OVER
City,State,Zip:	BROOKLYN, NY 11211
Country:	USA
EPA ID:	NYD987032364
Facility Status:	Not reported
Location Address 1:	METROPOLITAN -GRAND ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	NEW YORK
Location State:	NY
Location Zip:	10006
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD987032364
Mailing Name:	NYCDOT
Mailing Contact:	JOHN KIRINCIC
Mailing Address 1:	2 RECTOR ST
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10006
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7189639213

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported

NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE (Continued) **1000791719**

Year:	2018
Trans1 State ID:	MAC300016672
Trans2 State ID:	Not reported
Generator Ship Date:	10/23/2015
Trans1 Recv Date:	10/23/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/26/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987032364
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD077444263
TSDF ID 2:	Not reported
Manifest Tracking Number:	008915181FLE
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	5
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	Not reported
Waste Code 1_2:	D008
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

NJ MANIFEST:

EPA Id:	NYD987032364
Mail Address:	2 RECTOR STREET
Mail City/State/Zip:	NEW YORK 10006
Facility Phone:	2127882083
Emergency Phone:	Not reported
Contact:	Not reported
Comments:	Not reported
SIC Code:	Not reported
County:	00
Municipal:	00

NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE (Continued) **1000791719**

Previous EPA Id:	Not reported
Gen Flag:	X
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	NJA5104662
EPA ID:	NYD987032364
Date Shipped:	04/30/2004
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/30/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/05/2004
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	05250422
Was Load Rejected:	NEW YORK 10006
Reason Load Was Rejected:	Not reported

Manifest Number:	NJA5104699
EPA ID:	NYD987032364
Date Shipped:	05/10/2004
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported

NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE (Continued) **1000791719**

Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/10/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/10/2004
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	05270422
Was Load Rejected:	NEW YORK 10006
Reason Load Was Rejected:	Not reported

Manifest Number:	NJA5025311
EPA ID:	NYD987032364
Date Shipped:	08/09/2004
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/09/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/09/2004

NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE (Continued) **1000791719**

TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	08310421
Was Load Rejected:	NEW YORK 10006
Reason Load Was Rejected:	Not reported

Manifest Number:	NJA5227102
EPA ID:	NYD987032364
Date Shipped:	05/13/2005
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/13/2005
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/13/2005
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06200522
Was Load Rejected:	NEW YORK 10006
Reason Load Was Rejected:	Not reported

NYCDOT - METROPOLITAN AVENUE BASCULE BRIDGE (Continued) **1000791719**

Manifest Number:	NJA5083136
EPA ID:	NYD987032364
Date Shipped:	02/23/2006
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	02/23/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	02/23/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	04130621
Was Load Rejected:	NEW YORK 10006
Reason Load Was Rejected:	Not reported

M124 **CON EDISON** **RCRA NonGen / NLR** **1018279295**
South **VARICK AND MESEROLE ST VAULT 3** **FINDS** **NYP004741005**
1/8-1/4 **BROOKLYN, NY 11237** **ECHO**
0.152 mi.
801 ft. **Site 7 of 13 in cluster M**

Relative: **Lower**
Actual: **11 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20150302
Handler Name:	CON EDISON	
Handler Address:		VARICK AND MESEROLE ST VAULT 3
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYP004741005
Contact Name:		THOMAS TEELING
Contact Address:		Not reported
Contact City,State,Zip:		Not reported

CON EDISON (Continued) **1018279295**

Contact Telephone:	212-460-3770
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	IRVING PL, 15TH FL NE
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

CON EDISON (Continued) **1018279295**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160502
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2015

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private
Date Became Current:	20150302
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private
Date Became Current:	20150302
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:
Receive Date: 20160205
Handler Name: CON EDISON - VAULT 3570

CON EDISON (Continued) **1018279295**

Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150302
Handler Name: CON EDISON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150302
Handler Name: CON EDISON
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 221122
NAICS Description: ELECTRIC POWER DISTRIBUTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110067688657

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

CON EDISON (Continued) **1018279295**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1018279295
Registry ID:	110067688657
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110067688657
Name:	CON EDISON
Address:	VARICK AND MESEROLE ST VAULT 3
City,State,Zip:	BROOKLYN, NY 11237

N125 **CON EDISON** **NY MANIFEST** **S118259873**
NNE **GARDNER AVE & GRAND ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11233**
0.154 mi.
815 ft. **Site 4 of 6 in cluster N**

Relative: **Lower**

Actual: **8 ft.**

NY MANIFEST:

Name:	CON EDISON
Address:	GARDNER AVE & GRAND ST
City,State,Zip:	BROOKLYN, NY 11233
Country:	USA
EPA ID:	NYP004839324
Facility Status:	Not reported
Location Address 1:	GARDNER AVE & GRAND ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11233
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004839324
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047

CON EDISON (Continued) **S118259873**

Trans2 State ID:	Not reported
Generator Ship Date:	09/16/2015
Trans1 Recv Date:	09/16/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/17/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004839324
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002625158GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	300
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

N126 **CON EDISON** **NJ MANIFEST** **S120676764**
NNE **GARDNER AVE & GRAND ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11233**
0.154 mi.
815 ft. **Site 5 of 6 in cluster N**

Relative: NJ MANIFEST:
Lower

EPA Id:	NYP004839324
Mail Address:	IRVING PLACE, 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THERESA BURKARD
Comments:	Not reported

Actual:
8 ft.

CON EDISON (Continued) **S120676764**

SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002625158GBF
EPA ID:	NYP004839324
Date Shipped:	9/16/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

N127 **CON EDISON** **RCRA NonGen / NLR** **1019325582**
NNE **GARDNER AVE & GRAND ST** **NYP004839324**
1/8-1/4 **BROOKLYN, NY 11233**
0.154 mi.
815 ft. **Site 6 of 6 in cluster N**

Relative: **Lower**
Actual: **8 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20150916
Handler Name:	CON EDISON	
Handler Address:		GARDNER AVE & GRAND ST
Handler City,State,Zip:		BROOKLYN, NY 11233
EPA ID:		NYP004839324
Contact Name:		THOMAS TEELING
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		212-460-3770
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		IRVING PL 15TH FL NE
Mailing City,State,Zip:		NEW YORK, NY 10003
Owner Name:		Not reported
Owner Type:		Not reported
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

CON EDISON (Continued) **1019325582**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160909
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2015

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private
Date Became Current:	20150916
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private

CON EDISON (Continued) **1019325582**

Date Became Current: 20150916
Date Ended Current: Not reported
Owner/Operator Address: 4 IRVING PLACE
Owner/Operator City,State,Zip: NEW YORK, NY 10003
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20160205
Handler Name: CON EDISON - VAULT 4535
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150916
Handler Name: CON EDISON
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150916
Handler Name: CON EDISON
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 221122
NAICS Description: ELECTRIC POWER DISTRIBUTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

CON EDISON (Continued) **1019325582**

Evaluation Action Summary:
Evaluations: No Evaluations Found

M128 **CON EDISON** **NJ MANIFEST** **S120671513**
South **W SIDE VARICK ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.155 mi.
816 ft. **Site 8 of 13 in cluster M**

Relative: **Lower**

Actual: **11 ft.**

NJ MANIFEST:

EPA Id:	NYP004779625
Mail Address:	IRVING PL15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THERESA BURKARD
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	014454086JJK
EPA ID:	NYP004779625
Date Shipped:	5/6/2015
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported

CON EDISON (Continued) **S120671513**

Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

M129 **CON EDISON** **NY MANIFEST** **S121967313**
South **W SIDE VARICK ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.155 mi.
816 ft. **Site 9 of 13 in cluster M**

Relative: **Lower**

Actual: **11 ft.**

NY MANIFEST:

Name:	CON EDISON
Address:	W SIDE VARICK ST
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP004779625
Facility Status:	Not reported
Location Address 1:	W SIDE VARICK ST & MESEROLE ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004779625
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	05/06/2015
Trans1 Recv Date:	05/06/2015

CON EDISON (Continued) **S121967313**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/11/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004779625
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	014454086JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	4000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

M130 **CON EDISON** **NJ MANIFEST** **S120668124**
South **VARICK & MESEROLE ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.155 mi.
816 ft. **Site 10 of 13 in cluster M**

Relative: NJ MANIFEST:
Lower

Actual: EPA Id:	NYP004741039
11 ft. Mail Address:	IRVING PL, 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported

CON EDISON (Continued) **S120668124**

Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	014087302JJK
EPA ID:	NYP004741039
Date Shipped:	3/2/2015
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

EPA Id:	NYP004741005
Mail Address:	IRVING PLACE, 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THERESA BURKARD
Comments:	Not reported

CON EDISON (Continued) **S120668124**

SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	014087300JJK
EPA ID:	NYP004741005
Date Shipped:	3/2/2015
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

M131 **CON EDISON** **NY MANIFEST** **S118256554**
South **VARICK ST & MESEROLE ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.155 mi.
816 ft. **Site 11 of 13 in cluster M**

Relative:
Lower

Actual:
11 ft.

NY MANIFEST:

Name:	CON EDISON
Address:	VARICK ST & MESEROLE ST
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP004779476
Facility Status:	Not reported
Location Address 1:	VARICK ST & MESEROLE ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004779476
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	05/06/2015
Trans1 Recv Date:	05/06/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/11/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004779476
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	014454085JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N

CON EDISON (Continued) **S118256554**

Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	9000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

M132 **CON EDISON** **RCRA NonGen / NLR** **1019324937**
South **VARICK ST & MESEROLE ST** **FINDS** **NYP004779476**
1/8-1/4 **BROOKLYN, NY 11237** **ECHO**
0.155 mi.
816 ft. **Site 12 of 13 in cluster M**

Relative: **Lower**
Actual: **11 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20150506
Handler Name:	CON EDISON	
Handler Address:		VARICK ST & MESEROLE ST
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYP004779476
Contact Name:		THOMAS TEELING
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		212-460-3770
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		IRVING PL 15TH FL NE
Mailing City,State,Zip:		NEW YORK, NY 10003
Owner Name:		Not reported
Owner Type:		Not reported

CON EDISON (Continued) **1019324937**

Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160909
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

CON EDISON (Continued) **1019324937**

Biennial: List of Years
Year: 2015

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status: Private
Date Became Current: 20150506
Date Ended Current: Not reported
Owner/Operator Address: 4 IRVING PLACE
Owner/Operator City,State,Zip: NEW YORK, NY 10003
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status: Private
Date Became Current: 20150506
Date Ended Current: Not reported
Owner/Operator Address: 4 IRVING PLACE
Owner/Operator City,State,Zip: NEW YORK, NY 10003
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20160205
Handler Name: CON EDISON - MANHOLE 43892
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150506
Handler Name: CON EDISON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No

CON EDISON (Continued) **1019324937**

Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20150506
Handler Name: CON EDISON	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 221122
NAICS Description: ELECTRIC POWER DISTRIBUTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110069383367

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1019324937
Registry ID:	110069383367
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110069383367
Name:	CON EDISON
Address:	VARICK ST & MESEROLE ST
City,State,Zip:	BROOKLYN, NY 11237

M133 **CON EDISON** **RCRA NonGen / NLR** **1019324941**
South **VARICK ST & MESEROLE ST** **NYP004779625**
1/8-1/4 **BROOKLYN, NY 11237**
0.155 mi.
816 ft. **Site 13 of 13 in cluster M**

Relative: **Lower**
Actual: **11 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20150506
Handler Name:	CON EDISON	
Handler Address:		VARICK ST & MESEROLE ST
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYP004779625
Contact Name:		THOMAS TEELING
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		212-460-3770
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		IRVING PL 15TH FL NE
Mailing City,State,Zip:		NEW YORK, NY 10003
Owner Name:		Not reported
Owner Type:		Not reported
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

CON EDISON (Continued) **1019324941**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160909
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2015

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CONSOLIDATED EDISON CO OF NY INC
Legal Status:	Private
Date Became Current:	20150506
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PL
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CONSOLIDATED EDISON CO OF NY INC
Legal Status:	Private

CON EDISON (Continued) **1019324941**

Date Became Current: 20150506
Date Ended Current: Not reported
Owner/Operator Address: 4 IRVING PL
Owner/Operator City,State,Zip: NEW YORK, NY 10003
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20160205
Handler Name: CON EDISON - MANHOLE 43893
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150506
Handler Name: CON EDISON
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150506
Handler Name: CON EDISON
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 221122
NAICS Description: ELECTRIC POWER DISTRIBUTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

CON EDISON (Continued) **1019324941**

Evaluation Action Summary:
Evaluations: No Evaluations Found

Q134 **ALLOCCO RECYCLING LTD (SCHOLES ST)** **NY SWRCY** **S103272921**
ESE **575 SCHOLES STREET** **NY Spills** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.172 mi.
908 ft. **Site 1 of 4 in cluster Q**

Relative:
Higher

Actual:
15 ft.

SWRCY:

Name:	ALLOCCO RECYCLING LTD (SCHOLES ST)
Address:	575 SCHOLES STREET
City,State,Zip:	BROOKLYN, NY 11237
Region:	2
Facility Address 2:	Not reported
Phone Number:	7183493094
Owner Type:	Private
Owner Name:	Michael Allocco
Owner Address:	540 Kingsand Ave
Owner Address 2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222
Owner Email:	Mike@alloccorecycling.com
Owner Phone:	7183493094
Contact Name:	Not reported
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	RHRF - registration
Activity Number:	[24MG6]
Active:	No
East Coordinate:	590866
North Coordinate:	4507400
Accuracy Code:	Not reported
Regulatory Status:	Registration
Permit #:	24MG6
Auth. Date:	3/28/2014
Expiration Date:	Not reported
Waste Types:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Last Date:	10/26/2016

SPILLS:

Name:	575 SCHOLES AVENUE
Address:	575 SCHOLES AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9610612 / 1996-11-25
Facility ID:	9610612
Facility Type:	ER
DER Facility ID:	199340
Site ID:	242575
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	B3

ALLOCCO RECYCLING LTD (SCHOLES ST) (Continued) **S103272921**

SWIS:	2401
Spill Date:	1996-11-25
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1996-11-25
CID:	351
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-11-25
Spill Record Last Update:	2007-02-27
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	FIREMAN CASTAGNA
DEC Memo:	""
Remarks:	"FD ON SCENE OF SPILL - LITTLE INFO AT THIS TIME - IN PROCESS OF RECOVERING"

All Materials:

Site ID:	242575
Operable Unit ID:	1042047
Operable Unit:	01
Material ID:	342826
Material Code:	0029C
Material Name:	hydrogen chloride
Case No.:	07647010
Material FA:	Hazardous Material
Quantity:	15.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	575 SCHOLES ST/B'KLYN/JLJ
Address:	575 SCHOLES ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	8707214 / 1987-11-21
Facility ID:	8707214
Facility Type:	ER
DER Facility ID:	146106
Site ID:	173694
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Spill Date:	1987-11-21
Investigator:	UNASSIGNED
Referred To:	Not reported
Reported to Dept:	1987-11-21
CID:	Not reported

ALLOCCO RECYCLING LTD (SCHOLES ST) (Continued) **S103272921**

Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Fire Department
Cleanup Ceased:	1987-11-21
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1987-11-27
Spill Record Last Update:	2003-08-20
Spiller Name:	Not reported
Spiller Company:	JLJ CO.
Spiller Address:	575 SCHOLES ST
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was "
Remarks:	"TANK PARTIALLY FILLED WITH PRODUCT WAS BEING CUT UP BY SCRAP YARD. CONTACT: STEVE SPALIRO (718) 366-6513."

All Materials:

Site ID:	173694
Operable Unit ID:	912946
Operable Unit:	01
Material ID:	466181
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

P135 **CON ED - V 4628** **RCRA NonGen / NLR** **1007206190**
ENE **SCOTT AVE & METRO AVE** **NY MANIFEST** **NYP004005286**
1/8-1/4 **BROOKLYN, NY 11237**
0.179 mi.
947 ft. **Site 4 of 4 in cluster P**

Relative: **Lower**
Actual: **11 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		19980228
Handler Name:	CON ED - V 4628	
Handler Address:		SCOTT AVE & METRO AVE
Handler City,State,Zip:		BROOKLYN, NY 11237-0000
EPA ID:		NYP004005286
Contact Name:		ANTHONY DRUMMINGS
Contact Address:		CONSOLIDATED EDISON INC
Contact City,State,Zip:		NEW YORK, NY 10003-0000
Contact Telephone:		212-460-3770
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported

CON ED - V 4628 (Continued) **1007206190**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	CONSOLIDATED EDISON INC
Mailing City,State,Zip:	NEW YORK, NY 10003-0000
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No

CON ED - V 4628 (Continued) **1007206190**

Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	19980227
Handler Name: CON ED - V 4628	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19980228
Handler Name: CON ED - V 4628	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19980226
Handler Name: CON ED - V 4628	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	2211
NAICS Description:	ELECTRIC POWER GENERATION, TRANSMISSION AND DISTRIBUTION

NAICS Code:	22111

CON ED - V 4628 (Continued) **1007206190**

NAICS Description: ELECTRIC POWER GENERATION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

NY MANIFEST:

Name:	CONSOLIDATED EDISON CO
Address:	SCOTT AVE & METRO AVE
City,State,Zip:	BROOKLYN, NY 11237-0000
Country:	USA
EPA ID:	NYP004005286
Facility Status:	Not reported
Location Address 1:	SCOTT AND METRO AVENUE V4628
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	Not reported
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004005286
Mailing Name:	CONSOLIDATED EDISON CO
Mailing Contact:	FRANKLIN MURRAY
Mailing Address 1:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124602808

O136 **L & H ASSOCIATES C/O TROON MGMT.** **NY UST** **U001833096**
WNW **1101-1107 METROPOLITAN AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.184 mi.
974 ft. **Site 6 of 6 in cluster O**

Relative:
Lower

Actual:
11 ft.

UST:

Name:	L & H ASSOCIATES C/O TROON MGMT.
Address:	1101-1107 METROPOLITAN AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Id/Status:	2-109932 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590089.61071
UTM Y:	4507606.12417
Site Type:	Other

L & H ASSOCIATES C/O TROON MGMT. (Continued) **U001833096**

Affiliation Records:

Site Id:	3334
Affiliation Type:	Facility Owner
Company Name:	L & H ASSOCIATES C/O TROON MGMT
Contact Type:	OFFICE MGR
Contact Name:	THERESA THORNTON
Address1:	885 THIRD AVE, ROOM #1780
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10022
Country Code:	001
Phone:	(212) 230-8229
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2008-04-24

Site Id:	3334
Affiliation Type:	Mail Contact
Company Name:	TROON MGMT
Contact Type:	Not reported
Contact Name:	THERESA THORNTON
Address1:	885 THIRD AVE, ROOM #1780
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10022
Country Code:	001
Phone:	(212) 230-8339
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2008-04-24

Site Id:	3334
Affiliation Type:	Facility Operator
Company Name:	L & H ASSOCIATES C/O TROON MGMT.
Contact Type:	Not reported
Contact Name:	KINGSLAND & PAUL CHIEN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 782-8676
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2008-04-24

Site Id:	3334
Affiliation Type:	Emergency Contact
Company Name:	L & H ASSOCIATES C/O TROON MGMT
Contact Type:	Not reported
Contact Name:	LLOYD NELSON

L & H ASSOCIATES C/O TROON MGMT. (Continued) **U001833096**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 824-8701
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	2005-03-07

Tank Info:

Tank Number:	001
Tank ID:	7869
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	7500
Install Date:	Not reported
Date Tank Closed:	04/26/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	CGFREEDM
Last Modified:	04/14/2017

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None

Tank Number:	002
Tank ID:	222583
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	7500
Install Date:	Not reported
Date Tank Closed:	04/02/2008
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel

L & H ASSOCIATES C/O TROON MGMT. (Continued) **U001833096**

Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: CGFREEDM
Last Modified: 04/14/2017

Equipment Records:

J00 - Dispenser - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
C03 - Pipe Location - Aboveground/Underground Combination

R137 **CON EDISON** **NY MANIFEST** **S119073533**
ESE **585 MESSEROLE ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.188 mi.
994 ft. **Site 1 of 3 in cluster R**

Relative: **Higher**

Actual: **14 ft.**

NY MANIFEST:
Name: CON EDISON
Address: 585 MESSEROLE ST
City,State,Zip: BROOKLYN, NY 11237
Country: USA
EPA ID: NYP004287686
Facility Status: Not reported
Location Address 1: N/W/C MESEROLE ST & GARDENER AVE
Code: BP
Location Address 2: MH 58002
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11237
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004287686
Mailing Name: CON EDISON
Mailing Contact: TOM TEELING
Mailing Address 1: 4 IRVING PLACE - 15TH FLOOR
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124603770

CON EDISON (Continued) **S119073533**

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	02/07/2013
Trans1 Recv Date:	02/07/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/07/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004287686
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002016000GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

R138
ESE
1/8-1/4
0.188 mi.
994 ft.

CON EDISON - MANHOLE 58002
585 MESSEROLE ST
BROOKLYN, NY 11237

Site 2 of 3 in cluster R

RCRA-LQG **1016150097**
NYP004287686

Relative:
Higher

Actual:
14 ft.

RCRA-LQG:

Date Form Received by Agency:	20140327
Handler Name:	CON EDISON - MANHOLE 58002
Handler Address:	585 MESSEROLE ST
Handler City,State,Zip:	BROOKLYN, NY 11237
EPA ID:	NYP004287686
Contact Name:	DENNIS HUACON
Contact Address:	IRVING PLACE, 15TH FL NE
Contact City,State,Zip:	NEW YORK, NY 10003
Contact Telephone:	212-460-2757
Contact Fax:	518-473-8034
Contact Email:	HUACOND@CONED.COM
Contact Title:	ASSOCIATE SCIENTIST
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2013
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	IRVING PLACE, 15TH FL NE
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner Type:	Private
Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

CON EDISON - MANHOLE 58002 (Continued) **1016150097**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2013

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private
Date Became Current:	20130207
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private

CON EDISON - MANHOLE 58002 (Continued) **1016150097**

Date Became Current:	20130207
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20140327
Handler Name:	CON EDISON - MANHOLE 58002
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20130207
Handler Name:	CON EDISON MANHOLE: 58002
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	221122
NAICS Description:	ELECTRIC POWER DISTRIBUTION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

S139 **ALFRED CHEMICAL CORP.** **NY CBS** **S102147546**
SE **111 GARDNER AVE.** **NY AST** **N/A**
1/8-1/4 **BROOKLYN, NY 11237** **NY CBS AST**
0.190 mi. **NY Spills**
1004 ft. **Site 1 of 2 in cluster S**

Relative:
Lower

Actual:
13 ft.

CBS:

Name:	ALFRED CHEMICAL CORP.
Address:	111 GARDNER AVE
City,State,Zip:	BROOKLYN, NY 11237
CBS Number:	2-000023
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	590792.10533
UTMY:	4507237.30487

Name:	ALFRED CHEMICAL CORP.
Address:	111 GARDNER AVE
City,State,Zip:	BROOKLYN, NY 11237
CBS Number:	2-000037
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	590792.23647
UTMY:	4507236.42952

AST:

Name:	ALFRED CHEMICAL CORP.
Address:	111 GARDNER AVE
City,State,Zip:	BROOKLYN, NY 11237
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-000037
Program Type:	CBS
UTM X:	590792.23647
UTM Y:	4507236.42952
Expiration Date:	N/A
Site Type:	Chemical Distributor

Tank Info:

Tank Number:	0002B
Tank Id:	183323
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Plastic
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	06/01/1988
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True

ALFRED CHEMICAL CORP. (Continued) **S102147546**

Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

Tank Number:	16
Tank Id:	182826
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Plastic
Tank Status:	Tank Converted to Non-Regulated Use
Pipe Model:	Not reported
Install Date:	06/01/1988
Capacity Gallons:	1500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	05/01/1992
Register:	True
Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

Tank Number:	5
Tank Id:	182827
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Plastic
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	06/01/1988
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

Tank Number:	7
Tank Id:	182825
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	05/01/1982
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True

ALFRED CHEMICAL CORP. (Continued) **S102147546**

Modified By: CBSInit
Last Modified: 03/21/2005
Material Name: Not reported

Tank Info:

Tank Number: 0002B
Tank Id: 183323
Tank Location: Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type: Plastic
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 06/01/1988
Capacity Gallons: 2000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: CBSInit
Last Modified: 03/21/2005
Material Name: Not reported

Tank Number: 16
Tank Id: 182826
Tank Location: Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type: Plastic
Tank Status: Tank Converted to Non-Regulated Use
Pipe Model: Not reported
Install Date: 06/01/1988
Capacity Gallons: 1500
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 05/01/1992
Register: True
Modified By: CBSInit
Last Modified: 03/21/2005
Material Name: Not reported

Tank Number: 5
Tank Id: 182827
Tank Location: Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type: Plastic
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 06/01/1988
Capacity Gallons: 2000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported

ALFRED CHEMICAL CORP. (Continued) **S102147546**

Register: True
Modified By: CBSInit
Last Modified: 03/21/2005
Material Name: Not reported

Tank Number: 7
Tank Id: 182825
Tank Location: Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 05/01/1982
Capacity Gallons: 5000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: CBSInit
Last Modified: 03/21/2005
Material Name: Not reported

CBS AST:
CBS Number: 2-000023
ICS Number: 2-700265
PBS Number: Not reported
MOSF Number: Not reported
SPDES Number: Not reported
Facility Status: IN SERVICE
Facility Type: I
Telephone: (718) 821-0909
Facility Town: NEW YORK CITY
Region: STATE
Expiration Date: 02/24/1995
Total Capacity of All Active Tanks(gal): 0
Operator: DON GALLOP
Emergency Contact: DON GALLOP
Emergency Phone: (201) 360-1253
Owner Name: ALFRED CHEMICAL CORP.
Owner Address: 111 GARDNER AVE.
Owner City,St,Zip: BROOKLYN, NY 11237
Owner Telephone: (718) 821-0909
Owner Type: Corporate/Commercial
Owner Sub Type: Not reported
Mail Name: ALFRED CHEMICAL CORP.
Mail Contact Addr: 111 GARDNER AVE.
Mail Contact Addr2: Not reported
Mail Contact Contact: DON GALLOP
Mail Contact City,St,Zip: BROOKLYN, NY 11237
Mail Phone: (718) 821-0909

Tank Id: 16
CAS Number: 7664382
Federal ID: Not reported
Tank Status: 0

ALFRED CHEMICAL CORP. (Continued) **S102147546**

Install Date:	06/88
Tank Closed:	05/92
Capacity (Gal):	1500
Chemical:	Phosphoric acid
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	Other
Tank Error Status:	No Missing Data
Date Entered:	02/24/1989
Certified Date:	12/04/1992
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Unknown
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Haz Percent:	80
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	11/02/92
Is It There:	False
Delinquent:	False
Date Expired:	02/24/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	03/23/1995

Tank Id:	0002B
CAS Number:	7782505
Federal ID:	Not reported
Tank Status:	0
Install Date:	06/88
Tank Closed:	00/00
Capacity (Gal):	2000
Chemical:	Chlorine
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	Other
Tank Error Status:	No Missing Data
Date Entered:	04/28/1989
Certified Date:	02/05/1993
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None

ALFRED CHEMICAL CORP. (Continued) **S102147546**

External Protection:	None
Pipe Location:	None
Pipe Type:	Unknown
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	Product Level Gauge
Haz Percent:	15
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	01/04/93
Is It There:	False
Delinquent:	False
Date Expired:	04/28/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	05/24/1995

Tank Id:	5
CAS Number:	27176870
Federal ID:	Not reported
Tank Status:	0
Install Date:	06/88
Tank Closed:	00/00
Capacity (Gal):	2000
Chemical:	Dodecylbenzenesulfonic acid
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	Other
Tank Error Status:	No Missing Data
Date Entered:	02/24/1989
Certified Date:	12/04/1992
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Unknown
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Haz Percent:	10
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False

ALFRED CHEMICAL CORP. (Continued) **S102147546**

Renew Date:	11/02/92
Is It There:	False
Delinquent:	False
Date Expired:	02/24/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	03/23/1995

Tank Id:	7
CAS Number:	1310583
Federal ID:	Not reported
Tank Status:	0
Install Date:	05/82
Tank Closed:	00/00
Capacity (Gal):	5000
Chemical:	Potassium hydroxide
Tank Location:	Indoors, Aboveground
Tank Type:	Steel/carbon steel
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	Other
Tank Error Status:	No Missing Data
Date Entered:	02/24/1989
Certified Date:	12/04/1992
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Unknown
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Haz Percent:	80
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	11/02/92
Is It There:	False
Delinquent:	False
Date Expired:	02/24/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	03/23/1995

SPILLS:

Name:	111 GARDNER AVENUE
Address:	111 GARDNER AVENUE
City,State,Zip:	BROOKLYN, NY

ALFRED CHEMICAL CORP. (Continued) **S102147546**

Spill Number/Closed Date:	9311997 / 1994-01-11
Facility ID:	9311997
Facility Type:	ER
DER Facility ID:	63513
Site ID:	66304
DEC Region:	2
Spill Cause:	Abandoned Drums
Spill Class:	C4
SWIS:	2401
Spill Date:	1994-01-11
Investigator:	UNASSIGNED
Referred To:	Not reported
Reported to Dept:	1994-01-11
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	1994-01-11
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1994-01-12
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was 10/10/95: This is additional information about material spilled from the translation of the old spill file: POWDER SUBSTANCE."
Remarks:	"3 CARDBOARD & PLASTIC CONTAINERS - HAZMAT SECTION WAS NOTIFIED - CALL KEN FRADKIM @ DEP WILL HANDLE AND WILL CALL BACK IF NEEDS HELP."

All Materials:

Site ID:	66304
Operable Unit ID:	994006
Operable Unit:	01
Material ID:	391002
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Not reported
Recovered:	.00
Oxygenate:	Not reported

S140 **ALFRED CHEMICAL CORP** **RCRA NonGen / NLR** **1004760849**
SE **111 GARDNER AVE** **FINDS** **NYR000062570**
1/8-1/4 **BROOKLYN, NY 11237** **ECHO**
0.190 mi.
1004 ft. **Site 2 of 2 in cluster S**

Relative: **Lower**
Actual: **13 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20070101
Handler Name:	ALFRED CHEMICAL CORP	
Handler Address:		111 GARDNER AVE
Handler City,State,Zip:		BROOKLYN, NY 11237
EPA ID:		NYR000062570
Contact Name:		Not reported
Contact Address:		GARDNER AVE
Contact City,State,Zip:		BROOKLYN, NY 11237
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		GARDNER AVE
Mailing City,State,Zip:		BROOKLYN, NY 11237
Owner Name:		NON REGULATED
Owner Type:		Private
Operator Name:		NON REGULATED
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

ALFRED CHEMICAL CORP (Continued) **1004760849**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NON REGULATED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, NY 99999
Owner/Operator Telephone:	718-821-0909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NON REGULATED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, NY 99999
Owner/Operator Telephone:	718-821-0909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

ALFRED CHEMICAL CORP (Continued) **1004760849**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NON REGULATED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, NY 99999
Owner/Operator Telephone:	718-821-0909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19981023
Handler Name: ALFRED CHEMICAL CORP	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060101
Handler Name: ALFRED CHEMICAL CORP	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101
Handler Name: ALFRED CHEMICAL CORP	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19981023
Handler Name: ALFRED CHEMICAL CORP	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No

ALFRED CHEMICAL CORP (Continued) **1004760849**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002093289

Click Here:

Environmental Interest/Information System:
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ALFRED CHEMICAL CORP (Continued) **1004760849**

ECHO:
- Envid: 1004760849
- Registry ID: 110002093289
- DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002093289
- Name: ALFRED CHEMICAL CORP
- Address: 111 GARDNER AVENUE
- City,State,Zip: BROOKLYN, NY 11237

T141 **WOOD-TEX PANELS INC** **RCRA NonGen / NLR** **1000184307**
SSE **108 VARICK AVE** **FINDS** **NYD001641489**
1/8-1/4 **BROOKLYN, NY 11237** **ECHO**
0.199 mi. **NY MANIFEST**
1049 ft. **Site 1 of 7 in cluster T**

Relative: **Lower**
Actual: **13 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20070101
Handler Name:	WOOD-TEX PANELS INC	
Handler Address:		108 VARICK AVE
Handler City,State,Zip:		BROOKLYN, NY 11237-1217
EPA ID:		NYD001641489
Contact Name:		Not reported
Contact Address:		VARICK AVE
Contact City,State,Zip:		BROOKLYN, NY 11237
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		VARICK AVE
Mailing City,State,Zip:		BROOKLYN, NY 11237
Owner Name:		WOOD-TEX PANELS INC
Owner Type:		Private
Operator Name:		WOOD-TEX PANELS INC
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported

WOOD-TEX PANELS INC (Continued) **1000184307**

Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	F017
Waste Description:	Not Defined
Waste Code:	U220
Waste Description:	BENZENE, METHYL- (OR) TOLUENE
Waste Code:	U239
Waste Description:	BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

WOOD-TEX PANELS INC (Continued) **1000184307**

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	WOOD-TEX PANELS INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	WOOD-TEX PANELS INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	WOOD-TEX PANELS INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990708
Handler Name: WOOD-TEX PANELS INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060101
Handler Name: WOOD-TEX PANELS INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No

WOOD-TEX PANELS INC (Continued) **1000184307**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101
Handler Name:	WOOD-TEX PANELS INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19800814
Handler Name:	WOOD-TEX PANELS INC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	3219
NAICS Description:	OTHER WOOD PRODUCT MANUFACTURING

NAICS Code:	32191
NAICS Description:	MILLWORK

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19850909
Actual Return to Compliance Date:	19860212
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19851227
Enforcement Identifier:	001
Date of Enforcement Action:	19851127
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No

WOOD-TEX PANELS INC (Continued) **1000184307**

Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	NYDEC
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported

WOOD-TEX PANELS INC (Continued) **1000184307**

Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19850909
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19860212
Scheduled Compliance Date:	19851227
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19880524
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYDEC
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110001573663

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000184307
Registry ID:	110001573663
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001573663
Name:	WOOD-TEX PANELS INC

WOOD-TEX PANELS INC (Continued) **1000184307**

Address: 108 VARICK STREET
City,State,Zip: BROOKLYN, NY 11237

NY MANIFEST:
Name: WOOD-TEX PANELS INC
Address: 108 VARICK AVE
City,State,Zip: BROOKLYN, NY 11237-1217
Country: USA
EPA ID: NYD001641489
Facility Status: Not reported
Location Address 1: 108 VARICK AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11237
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD001641489
Mailing Name: WOOD-TEX PANELS INC
Mailing Contact: PACKIN DAVID PRESIDENT
Mailing Address 1: 108 VARICK AVE
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11237
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2123669292

U142 **GREENWALD INDUSTRIES INC** **RCRA NonGen / NLR** **1000457874**
East **1340 METROPOLITAN AVE** **FINDS** **NYD986931533**
1/8-1/4 **BROOKLYN, NY 11237** **ECHO**
0.203 mi. **NY MANIFEST**
1072 ft. **Site 1 of 5 in cluster U**

Relative: **Higher**
Actual: **16 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 20070101
Handler Name: GREENWALD INDUSTRIES INC
Handler Address: 1340 METROPOLITAN AVE
Handler City,State,Zip: BROOKLYN, NY 11237
EPA ID: NYD986931533
Contact Name: Not reported
Contact Address: METROPOLITAN AVE
Contact City,State,Zip: BROOKLYN, NY 11237
Contact Telephone: Not reported
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 02
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported

GREENWALD INDUSTRIES INC (Continued) **1000457874**

Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	METROPOLITAN AVE
Mailing City,State,Zip:	BROOKLYN, NY 11237
Owner Name:	GREENWALD INDUSTRIES INC
Owner Type:	Private
Operator Name:	GREENWALD INDUSTRIES INC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414

GREENWALD INDUSTRIES INC (Continued) **1000457874**

Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	NONE
Waste Description:	Not Defined

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GREENWALD INDUSTRIES INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	GREENWALD INDUSTRIES INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GREENWALD INDUSTRIES INC
Legal Status:	Private

GREENWALD INDUSTRIES INC (Continued) **1000457874**

Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19950419
Handler Name: GREENWALD INDUSTRIES INC
Federal Waste Generator Description: Not reported
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: GREENWALD INDUSTRIES INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: GREENWALD INDUSTRIES INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19901123
Handler Name: GREENWALD INDUSTRIES INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No

GREENWALD INDUSTRIES INC (Continued) **1000457874**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19921216
Evaluation Responsible Agency: EPA
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R2
Evaluation Responsible Sub-Organization: RCB
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported

GREENWALD INDUSTRIES INC (Continued) **1000457874**

Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

FINDS:
Registry ID: 110004456446

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000457874
Registry ID: 110004456446
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004456446
Name: GREENWALD INDUSTRIES INC
Address: 1340 METROPOLITAN AVE
City,State,Zip: BROOKLYN, NY 11237

NY MANIFEST:
Name: GREENWALD INDUSTRIES INC
Address: 1340 METROPOLITAN AVE
City,State,Zip: BROOKLYN, NY 11237
Country: USA
EPA ID: NYD986931533
Facility Status: Not reported
Location Address 1: 1340 METROPOLITAN AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11237
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD986931533
Mailing Name: GREENWALD INDUSTRIES INC
Mailing Contact: GREENWALD INDUSTRIES INC
Mailing Address 1: 1340 METROPOLITAN AVENUE
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11237
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 7188219000

V143 **ROLLING FRITO-LAY SALES** **NY AST** **A100410466**
West **222 MORGAN AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.204 mi.
1079 ft. **Site 1 of 2 in cluster V**

Relative:
Lower

Actual:
12 ft.

AST:

Name:	ROLLING FRITO-LAY SALES
Address:	222 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-612410
Program Type:	PBS
UTM X:	590047.41060
UTM Y:	4507318.82300
Expiration Date:	04/24/2020
Site Type:	Other

Affiliation Records:

Site Id:	507021
Affiliation Type:	Facility Owner
Company Name:	ROLLING FRITO-LAY SALES
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	7701 LEGACY DRIVE, FRITO-LAY, INC.
Address2:	Not reported
City:	PLANO
State:	TX
Zip Code:	75024
Country Code:	001
Phone:	(972) 334-7000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2015-04-24

Site Id:	507021
Affiliation Type:	Mail Contact
Company Name:	ROLLING FRITO-LAY SALES
Contact Type:	Not reported
Contact Name:	CLINTON PALMER
Address1:	222 MORGAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(917) 449-1837
EMail:	CLINT.PALMER@PEPSICO.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2015-04-24

Site Id:	507021
Affiliation Type:	Facility Operator
Company Name:	ROLLING FRITO-LAY SALES
Contact Type:	Not reported
Contact Name:	CLINTON A. PALMER

ROLLING FRITO-LAY SALES (Continued) **A100410466**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 449-1837
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2015-04-24

Site Id:	507021
Affiliation Type:	Emergency Contact
Company Name:	ROLLING FRITO-LAY SALES
Contact Type:	Not reported
Contact Name:	CLINTON PALMER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 449-1837
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2015-04-24

Tank Info:

Tank Number:	001
Tank Id:	255309

Equipment Records:

A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
E01 - Piping Secondary Containment - Diking (AG only)
L00 - Piping Leak Detection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J01 - Dispenser - Pressurized Dispenser
F00 - Pipe External Protection - None
K99 - Spill Prevention - Other
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	11/07/2007
Capacity Gallons:	250
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported

ROLLING FRITO-LAY SALES (Continued) **A100410466**

Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	motor oil
Tank Number:	002
Tank Id:	255310

Equipment Records:

A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
E01 - Piping Secondary Containment - Diking (AG only)
L00 - Piping Leak Detection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
F00 - Pipe External Protection - None
K99 - Spill Prevention - Other
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	11/07/2007
Capacity Gallons:	250
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

V144 **EASTERN TRANSFER OF NY; INC (N.Y. MATER** **NY SWF/LF** **S103592538**
West **222 MORGAN AVE** **NY LTANKS** **N/A**
1/8-1/4 **BROOKLYN, NY 11237** **NY SPDES**
0.204 mi.
1079 ft. **Site 2 of 2 in cluster V**

Relative: **Lower**
Actual: **12 ft.**

SWF/LF:

Name:	EASTERN TRANSFER OF NY; INC (N.Y. MATER
Address:	222 MORGAN AVE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	7184973100
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported

EASTERN TRANSFER OF NY; INC (N.Y. MATER (Continued) **S103592538**

Owner Phone:	Not reported
Contact Name:	LOUIS D'AMBROSIO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24T76]
Active:	No
East Coordinate:	590116
North Coordinate:	4507117
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6104-00097
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

Name:	EASTERN TRANSFER OF NY; INC (N.Y. MATER
Address:	222 MORGAN AVE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	7184973100
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	LOUIS D'AMBROSIO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[24W76]
Active:	No
East Coordinate:	590116
North Coordinate:	4507117
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6104-00097
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

EASTERN TRANSFER OF NY; INC (N.Y. MATER (Continued) **S103592538**

LTANKS:

Name:	QUATTRO PROPERTIES
Address:	222 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0009585 / 2003-08-28
Facility ID:	0009585
Site ID:	302888
Spill Date:	2000-11-21
Spill Cause:	Tank Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	2000-11-21
CID:	205
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	2000-11-21
Spill Record Last Update:	2003-08-28
Spiller Name:	JAMES JULIANO, PROP MGR
Spiller Company:	QUATTRO PROPERTIES, LLC
Spiller Address:	213-19 99TH AVENUE
Spiller County:	001
Spiller Contact:	CALLER
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	244717
DEC Memo:	""
Remarks:	"CALLER PULLED TANK AND FOUND CONTAMINATED SOIL.WOULD LIKE A CALL FROM DEC 11-21-00 TIS STRANGE BUT R. SPADALIK IS NO LONGER AT F&N WHEN I CALLED THE TEL#AND EXT,THATS WHAT THE PERSON AT THAT TEL#SAID ROBERT.L"

All Materials:

Site ID:	302888
Operable Unit ID:	830684
Operable Unit:	01
Material ID:	543525
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	222 MORGAN AVENUE

EASTERN TRANSFER OF NY; INC (N.Y. MATER (Continued) **S103592538**

Address:	222 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9312206 / 1994-01-17
Facility ID:	9312206
Site ID:	302889
Spill Date:	1994-01-17
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	C3
Cleanup Ceased:	1994-01-17
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1994-01-17
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Fire Department
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1994-01-20
Spill Record Last Update:	2003-08-28
Spiller Name:	Not reported
Spiller Company:	222 MORGAN AVENUE
Spiller Address:	222 MORGAN AVENUE
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	244717
DEC Memo:	""
Remarks:	"FIRE @ PLANT NOTIFIED DEP, UNK. ACTIONS. 11/18 UPDATE ROBERT KEPICH / DEP 595-6777 / 50-60 GAL DIESSEL HYDRAULIC NO CALL BACK. 100PM SPOKE TO ENZO HE SAID FIRE DIESSEL HYDRAULIC OIL P/U DISPOSE INDRUM"

All Materials:

Site ID:	302889
Operable Unit ID:	990817
Operable Unit:	01
Material ID:	391198
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPDES:

Name:	METRO NEW YORK SERVICE CENTER
Address:	222 MORGAN AVE

EASTERN TRANSFER OF NY; INC (N.Y. MATER (Continued) **S103592538**

City,State,Zip:	BROOKLYN, NY 11237
Permit Number:	NYR00E651
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor
Primary Facility SIC Code:	4213
State Water Body Name:	ENGLISH KILLS WATERWAY
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.712 / -73.933
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	ELPIDIO BURGOS
Non-Gov Permit Street Address:	METRO NEW YORK SERVICE CENTER
Non-Gov Permit Supplemental Location:	85 COMMERCE DR
Non-Gov Permit City:	SOMERSET
Non-Gov Permit State Code:	NJ
Non-Gov Permit Zip Code:	08878
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	ROLLING FRITO-LAY SALES LP
Non-Gov Facility Street Address:	METRO NEW YORK SERVICE CENTER
Non-Gov Facility Supplemental Location:	85 COMMERCE DR
Non-Gov Facility City:	SOMERSET
Non-Gov Facility State Code:	NJ
Non-Gov Facility Zip Code:	08873
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	METRO NEW YORK SERVICE CENTER
Address:	222 MORGAN AVE
City,State,Zip:	BROOKLYN, NY 11237
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	ROLLING FRITO-LAY SALES LP
Non-Gov Permit Street Address:	85 COMMERCE DR
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	SOMERSET
Non-Gov Permit State Code:	NJ
Non-Gov Permit Zip Code:	08872
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	ROLLING FRITO-LAY SALES LP

EASTERN TRANSFER OF NY; INC (N.Y. MATER (Continued) **S103592538**

Non-Gov Facility Street Address:	METRO NEW YORK SERVICE CENTER
Non-Gov Facility Supplemental Location:	85 COMMERCE DR
Non-Gov Facility City:	SOMERSET
Non-Gov Facility State Code:	NJ
Non-Gov Facility Zip Code:	08873
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	METRO NEW YORK SERVICE CENTER
Address:	222 MORGAN AVE
City,State,Zip:	BROOKLYN, NY 11237
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	ROLLING FRITO-LAY SALES LP
Non-Gov Facility Street Address:	METRO NEW YORK SERVICE CENTER
Non-Gov Facility Supplemental Location:	85 COMMERCE DR
Non-Gov Facility City:	SOMERSET
Non-Gov Facility State Code:	NJ
Non-Gov Facility Zip Code:	08873
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

R145 **MESEROLE STREET RECYCLING INC./FILIBERTO RECYCLING** **NY SWRCY** **S105838144**
ESE **568 MESEROLE STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.208 mi.
1099 ft. **Site 3 of 3 in cluster R**

Relative: SWRCY:
Higher

Name:	MESEROLE STREET RECYCLING INC./FILIBERTO RECYCLING
Address:	568 MESEROLE STREET
City,State,Zip:	BROOKLYN, NY 11237
Region:	2
Facility Address 2:	Not reported
Phone Number:	7184565000

Actual:
14 ft.

MESEROLE STREET RECYCLING INC./FILIBERTO RECYCLING (Continued) **S105838144**

Owner Type:	Private
Owner Name:	Filiberto Recycling
Owner Address:	568 Meserole Street
Owner Address 2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	RUDOLPH FILIBERTO
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	RHRF - registration
Activity Number:	[24MB5]
Active:	No
East Coordinate:	590803
North Coordinate:	4507257
Accuracy Code:	4.3 - Utilization of Digital Orthophoto Quads
Regulatory Status:	Permit
Permit #:	2-6104-00214
Auth. Date:	3/21/2005
Expiration Date:	3/21/2010
Waste Types:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Last Date:	Not reported

U146 **CON EDISON SERVICE BOX: 54420** **RCRA NonGen / NLR** **1016960837**
ENE **ONDERDONK AVE & METROPOLITAN** **NY MANIFEST** **NYP004330460**
1/8-1/4 **RIDGEWOOD, NY 11385**
0.209 mi.
1105 ft. **Site 2 of 5 in cluster U**

Relative: **Lower**

Actual: **11 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20130817
Handler Name:	CON EDISON SERVICE BOX: 54420
Handler Address:	ONDERDONK AVE & METROPOLITAN
Handler City,State,Zip:	RIDGEWOOD, NY 11385
EPA ID:	NYP004330460
Contact Name:	MARK MOORE
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	212-466-8516
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	OPERATING SUPERVISOR
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	IRVING PL, RM 828
Mailing City,State,Zip:	NEW YORK, NY 10003

CON EDISON SERVICE BOX: 54420 (Continued) **1016960837**

Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140701
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported

CON EDISON SERVICE BOX: 54420 (Continued) **1016960837**

Manifest Broker: Not reported
Sub-Part P Indicator: No

Historic Generators:

Receive Date: 20130717
Handler Name: CON EDISON SERVICE BOX: 54420
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20130817
Handler Name: CON EDISON SERVICE BOX: 54420
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

NY MANIFEST:
Name: CON EDISON
Address: ONDERDONK AVE & METROPOLITAN
City,State,Zip: RIDGEWOOD, NY 11385
Country: USA
EPA ID: NYP004330460
Facility Status: Not reported
Location Address 1: ES ONDENDORK 225’ S METROPOLITAN
Code: BP
Location Address 2: SB #54420
Total Tanks: Not reported
Location City: FLUSHING
Location State: NY
Location Zip: 11385

CON EDISON SERVICE BOX: 54420 (Continued) **1016960837**

Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004330460
Mailing Name: CON EDISON
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PLACE 15TH FLOOR
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124603770

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2018
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 07/17/2013
Trans1 Recv Date: 07/17/2013
Trans2 Recv Date: Not reported
TSD Site Recv Date: 07/17/2013
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004330460
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: NJD991291105
TSDF ID 2: Not reported
Manifest Tracking Number: 002086386GBF
Import Indicator: N
Export Indicator: N
Discr Quantity Indicator: N
Discr Type Indicator: N
Discr Residue Indicator: N
Discr Partial Reject Indicator: N
Discr Full Reject Indicator: N
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: H110
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Quantity: 100
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 1
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1

CON EDISON SERVICE BOX: 54420 (Continued) **1016960837**

Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

T147 **ENEQUIST CHEMICAL CO INC** **RCRA-LQG** **1000350776**
South **100 VARICK AVE** **NY CBS AST** **NYD002028827**
1/8-1/4 **BROOKLYN, NY 11237** **FINDS**
0.211 mi. **ECHO**
1112 ft. **Site 2 of 7 in cluster T** **PA MANIFEST**
NY MANIFEST
Relative: **NJ MANIFEST**
Lower

Actual: RCRA-LQG:
13 ft.

Date Form Received by Agency:	20070101
Handler Name:	ENEQUIST CHEMICAL CO INC
Handler Address:	100 VARICK AVE
Handler City,State,Zip:	BROOKLYN, NY 11237-1283
EPA ID:	NYD002028827
Contact Name:	Not reported
Contact Address:	VARICK AVE
Contact City,State,Zip:	BROOKLYN, NY 11237
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Not reported
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	VARICK AVE
Mailing City,State,Zip:	BROOKLYN, NY 11237
Owner Name:	THE ENEQUIST CHEMICAL CO INC
Owner Type:	Private
Operator Name:	THE ENEQUIST CHEMICAL CO INC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	P030
Waste Description:	CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	THE ENEQUIST CHEMICAL CO INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: THE ENEQUIST CHEMICAL CO INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: THE ENEQUIST CHEMICAL CO INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19990708
Handler Name: ENEQUIST CHEMICAL CO INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: ENEQUIST CHEMICAL CO INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: ENEQUIST CHEMICAL CO INC

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19800820
Handler Name: ENEQUIST CHEMICAL CO INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 325998
NAICS Description: ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19851118
Actual Return to Compliance Date: 19860212
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19860221
Enforcement Identifier: 001
Date of Enforcement Action: 19860121
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYDEC
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19851118
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYDEC
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19860212

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Scheduled Compliance Date:	19860221
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100629
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R2STP
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CBS AST:

CBS Number:	2-000027
ICS Number:	2-125129
PBS Number:	2-233072
MOSF Number:	Not reported
SPDES Number:	Not reported
Facility Status:	IN SERVICE
Facility Type:	A
Telephone:	(718) 497-1200
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	04/07/2003
Total Capacity of All Active Tanks(gal):	4000
Operator:	ENEQUIST CHEMICAL CO. INC.
Emergency Contact:	WALTER SCHWARTZ
Emergency Phone:	(718) 497-1200
Owner Name:	RJR REALTY CO., LTD
Owner Address:	1500 PAERDAGET AVENUE N
Owner City,St,Zip:	BROOKLYN, NY 11236
Owner Telephone:	(718) 209-1010
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	ENEQUIST CHEMICAL CO. INC.
Mail Contact Addr:	100 VARICK AVE.
Mail Contact Addr2:	Not reported
Mail Contact Contact:	WALTER SCHWARTZ
Mail Contact City,St,Zip:	BROOKLYN, NY 11237
Mail Phone:	(718) 497-1200
Tank Id:	007
CAS Number:	1310732
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	11/88
Tank Closed:	Not reported
Capacity (Gal):	1500
Chemical:	Sodium hydroxide

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Tank Location:	Indoors, Aboveground
Tank Type:	Steel/carbon steel
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	Vault
Tank Error Status:	No Missing Data
Date Entered:	04/07/1989
Certified Date:	02/05/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	Double Walled Fiberglass
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	Catch Basin
Haz Percent:	50
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	01/04/93
Is It There:	False
Delinquent:	False
Date Expired:	04/07/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	01/18/2001

Tank Id:	006
CAS Number:	1310732
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	10/88
Tank Closed:	Not reported
Capacity (Gal):	2500
Chemical:	Sodium hydroxide
Tank Location:	Indoors, Aboveground
Tank Type:	Steel/carbon steel
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	Vault
Tank Error Status:	No Missing Data
Date Entered:	04/07/1989
Certified Date:	02/05/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	Double Walled Fiberglass
Pipe Internal:	None

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	Catch Basin
Haz Percent:	50
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	01/04/93
Is It There:	False
Delinquent:	False
Date Expired:	04/07/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	01/18/2001

Tank Id:	005
CAS Number:	7664939
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	10/79
Tank Closed:	08/92
Capacity (Gal):	6000
Chemical:	Sulfuric acid
Tank Location:	Indoors, Belowground
Tank Type:	Steel/carbon steel
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	Vault
Tank Error Status:	No Missing Data
Date Entered:	04/07/1989
Certified Date:	02/05/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	None
Haz Percent:	93
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	01/04/93
Is It There:	False
Delinquent:	False
Date Expired:	04/07/95

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	01/18/2001

Tank Id:	003
CAS Number:	7647010
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	07/61
Tank Closed:	08/92
Capacity (Gal):	3000
Chemical:	Hydrochloric acid
Tank Location:	Indoors, Aboveground
Tank Type:	Steel/carbon steel
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	Vault
Tank Error Status:	No Missing Data
Date Entered:	04/07/1989
Certified Date:	02/05/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	Rubber Liner
External Protection:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	Double Walled Fiberglass
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	None
Haz Percent:	100
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	01/04/93
Is It There:	False
Delinquent:	False
Date Expired:	04/07/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	01/18/2001

Tank Id:	001
CAS Number:	7697372
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	07/61
Tank Closed:	08/92
Capacity (Gal):	3000

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Chemical:	Nitric acid
Tank Location:	Indoors, Belowground
Tank Type:	Stainless steel alloy
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	Vault
Tank Error Status:	No Missing Data
Date Entered:	04/07/1989
Certified Date:	02/05/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Wrapped Steel
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	None
Haz Percent:	67
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	01/04/93
Is It There:	False
Delinquent:	False
Date Expired:	04/07/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	01/18/2001

Tank Id:	004
CAS Number:	1310732
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	07/61
Tank Closed:	08/92
Capacity (Gal):	3000
Chemical:	Sodium hydroxide
Tank Location:	Indoors, Belowground
Tank Type:	Steel/carbon steel
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	Vault
Tank Error Status:	No Missing Data
Date Entered:	04/07/1989
Certified Date:	02/05/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	None
Haz Percent:	25
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	01/04/93
Is It There:	False
Delinquent:	False
Date Expired:	04/07/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	01/18/2001

Tank Id:	002
CAS Number:	7647010
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	03/74
Tank Closed:	08/92
Capacity (Gal):	6000
Chemical:	Hydrochloric acid
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass coated steel
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	Vault
Tank Error Status:	No Missing Data
Date Entered:	04/07/1989
Certified Date:	02/05/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	Aboveground
Pipe Type:	Double Walled Fiberglass
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None
Leak Detection:	None
Overfill Protection:	None
Haz Percent:	31
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	01/04/93
Is It There:	False
Delinquent:	False

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Date Expired: 04/07/95
Owner Mark: 1
Certificate Needs to be Printed: False
Fiscal Amt for Registration Fee Correct: True
Renewal Has Been Printed for Facility: True
Pre-Printed Renewal App Last Printed: 01/18/2001

FINDS:
Registry ID: 110000323551

Click Here:

Environmental Interest/Information System:
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000350776
Registry ID: 110000323551
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110000323551
Name: ENEQUIST CHEMICAL CO INC
Address: 100 VARICK AVE.
City,State,Zip: BROOKLYN, NY 11237

Manifest Details:
Year: 2006
Manifest Number: PAH320646
Manifest Type: TSD Copy
Generator EPA Id: NYD002028827
Generator Date: 06/30/2006
Mailing Address: Not reported
Mailing City,St,Zip: Not reported
Contact Name: Not reported
Contact Phone: Not reported
TSD EPA Id: PAD067098822
TSD Date: Not reported
TSD Facility Name: CYCLE CHEM INC
TSD Facility Address: 550 INDUSTRIAL DRIVE
TSD Facility City: LEWISBERRY
TSD Facility State: PA
Facility Telephone: 718-497-1200
Page Number: 1
Line Number: 1

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Waste Number: D002
Container Number: 1
Container Type: Metal drums, barrels, kegs
Waste Quantity: 55
Unit: Gallons (liquids only)
Handling Code: Not reported
TSP EPA Id: Not reported
Date TSP Sig: Not reported

Year: 2006
Manifest Number: PAH320646
Manifest Type: TSD Copy
Generator EPA Id: NYD002028827
Generator Date: 06/30/2006
Mailing Address: Not reported
Mailing City,St,Zip: Not reported
Contact Name: Not reported
Contact Phone: Not reported
TSD EPA Id: PAD067098822
TSD Date: Not reported
TSD Facility Name: CYCLE CHEM INC
TSD Facility Address: 550 INDUSTRIAL DRIVE
TSD Facility City: LEWISBERRY
TSD Facility State: PA
Facility Telephone: 718-497-1200
Page Number: 1
Line Number: 1
Waste Number: D005
Container Number: 1
Container Type: Metal drums, barrels, kegs
Waste Quantity: 55
Unit: Gallons (liquids only)
Handling Code: Not reported
TSP EPA Id: Not reported
Date TSP Sig: Not reported

NY MANIFEST:
Name: ENEQUIST CHEMICAL COMPANY INCORPORATED
Address: 100 VARICK AVE
City,State,Zip: BROOKLYN, NY 11237-1283
Country: USA
EPA ID: NYD002028827
Facility Status: Not reported
Location Address 1: 100 VARICK AVENUE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11237
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD002028827
Mailing Name: ENEQUIST CHEMICAL COMPANY INCORPORATED
Mailing Contact: WALTER SCHWARTZ
Mailing Address 1: 100 VARICK AVENUE

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7184971200

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJ0000027193
Trans2 State ID:	NJ0000027193
Generator Ship Date:	06/30/2006
Trans1 Recv Date:	06/30/2006
Trans2 Recv Date:	07/10/2006
TSD Site Recv Date:	07/11/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002028827
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	PAD067098822
TSDF ID 2:	Not reported
Manifest Tracking Number:	PAH0320646
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	55
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1
Waste Code:	D005
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

NJ MANIFEST:

EPA Id:	NYD002028827
Mail Address:	Not reported
Mail City/State/Zip:	Not reported
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	Not reported
Comments:	Not reported
SIC Code:	Not reported
County:	00
Municipal:	00
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	X
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	NJA5312788
EPA ID:	NYD002028827
Date Shipped:	03/29/2006
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/29/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/29/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06220621

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Was Load Rejected:	No
Reason Load Was Rejected:	Not reported
Manifest Number:	NJA5312763
EPA ID:	NYD002028827
Date Shipped:	03/31/2006
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/31/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/04/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06220621
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported
Manifest Number:	NJA2829650
EPA ID:	NYD002028827
Date Shipped:	04/03/2006
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/03/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/03/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06080622
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Manifest Number:	NJA2829648
EPA ID:	NYD002028827
Date Shipped:	04/03/2006
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/03/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/03/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06080622
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported
Manifest Number:	NJA5312765
EPA ID:	NYD002028827
Date Shipped:	03/29/2006
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/29/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/29/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06140622
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported
Manifest Number:	NJA5312786
EPA ID:	NYD002028827
Date Shipped:	03/31/2006
TSDF EPA ID:	NJD002200046

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/31/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/04/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	05310635
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Manifest Number:	NJA5312766
EPA ID:	NYD002028827
Date Shipped:	03/29/2006
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/29/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/29/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06140622
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

Manifest Number:	NJA2829649
EPA ID:	NYD002028827
Date Shipped:	04/03/2006
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/03/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/03/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Manifest Discrepancy Type:	Not reported
Data Entry Number:	06080622
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported
Manifest Number:	NJA5312764
EPA ID:	NYD002028827
Date Shipped:	03/29/2006
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/29/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/29/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06140622
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported
Manifest Number:	NJA5312787
EPA ID:	NYD002028827
Date Shipped:	03/29/2006
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported

ENEQUIST CHEMICAL CO INC (Continued) **1000350776**

Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/29/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/29/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06140622
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

T148 **ENEQUIST CHEMICAL** **NY AST** **A100382296**
South **100 VARICK AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.211 mi.
1112 ft. **Site 3 of 7 in cluster T**

Relative: **Lower**

Actual: **13 ft.**

AST:

Name:	ENEQUIST CHEMICAL
Address:	100 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-233072
Program Type:	PBS
UTM X:	590579.25393
UTM Y:	4507062.82724
Expiration Date:	N/A
Site Type:	Chemical Distributor

Tank Info:

Tank Number:	006
Tank Id:	66159
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.

ENEQUIST CHEMICAL (Continued) **A100382296**

Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/21/2006
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	007
Tank Id:	10958
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/21/2006
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	Not reported

T149 **EMEQUIFT CHEMICAL CORP - MISC** **NY LTANKS** **S118953501**
South **100 VARICK AVE** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.211 mi.
1112 ft. **Site 4 of 7 in cluster T**

Relative: LTANKS:
Lower

Actual: Name:	EMEQUIFT CHEMICAL CORP - MISC
13 ft. Address:	100 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0502445 / 2006-05-31
Facility ID:	0502445
Site ID:	346803
Spill Date:	2005-05-31
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	rjfeng
Referred To:	MW INSTALLATION DUE 5/31/2006
Reported to Dept:	2005-05-31
CID:	407
Water Affected:	Not reported
Spill Notifier:	Federal Government

EMEQUIFT CHEMICAL CORP - MISC (Continued) **S118953501**

Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2005-05-31
Spill Record Last Update:	2006-05-31
Spiller Name:	WALTER SCHWARTZ
Spiller Company:	EMEQUIFT CHEMICAL CORP
Spiller Address:	100 BARICK AVE
Spiller County:	001
Spiller Contact:	JOESEPH CREFCENZO
Spiller Phone:	(718) 497-1200
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	293056
DEC Memo:	"Phase 1 & Phase 2 done - found petroleum mixed with paint 10.14.05 SR// Sharif rec'd the site assesment report with remedial action plan. I suggested to prepare a health & safety plan, set a time frame to complete the remedial work and installation of monitoring wells to confirm the ground water flow.Paul Stewart of ACT,Inc will forward DEC an addendum. 12/20/05-Sharif//Case was transferred to Koon Tang for reassignment since the site is going through extensive remedial activities. 1/11/2006 - Feng - File reviewed by Feng: 1) On 5/2005, ATC performed Phase I/Phase II Environmental Site Assessment (ESA) for the site, and found elevated VOCs present in soil and groundwater beneath the western portion of the sotrage yard. and the source might be the historical gasoline UST and storage of solvents. 2) On 10/25/2005, ATC proposed RAP to remediate the site. a) removal of contaminated soil beneath the storage yard, b) install monitoring wells. DEC approved the RAP. Waiting for soil excavation report, MWs installation, and groundwater sampling results. 2/1/2006 - Feng - call from Caroline Cadalso (ACT) stated that about 700 tons of soil were excavated, endpoint samples were taken. groundwater encountered at 12' and it looks like perched water. They plan to install the monitoring well deeper, down to 25'-35' bg to delineate the extend of contamination. approved. (RJF) 3/22/2006 - Feng - Remedial Closure Report, prepared by ACT, dated 3/20/2006. ACT excavated the contaminated soil from Area A, B, C and D down to depth of 12' bg. Endpoint samples show high PERC concentration found in Area B and Area D. Extend the excavation of soil in Area B, and 2nd round of soil samples show low concentration (only one were sent for lab analysis). Confirmatory samples were taken from Area D, show low concentration (only one were sent for lab analysis). 3 MWs were installed and groundwater contour were provided. Groundwater flows to northwest. Analyticals show low concentration. ACT requested spill closure. Spill closure request was denied and letter sent requiring 2 more monitoring wells in the 2 former drain. According to Phase II site assessment, high PERC has been found in former drain B (soil boring SB-3). Installtion report due 5/31/2006. 4/24/2006 - Feng - Addendum to Closure Report dated 3/20/2006, 4/5/2006 submitted by Advanced CleanUp Technologies, Inc. 2 monitoring wells were installed in the former Drain B (W-5) and former Drain D (W-4). Groundwater depth encounterred at 10'. Screen depth of 25'-35' bg. low Soil concentration. Groundwater samples show low concentration, 8.73 ppb of Trichloroethene, 11.4 ppb Tetrachloroethene and 10.9 ppb 1,2-dichloroethene in W-4. Request closure. Emailed to Caroline

EMEQUIFT CHEMICAL CORP - MISC (Continued) **S118953501**

Cadalso and inquired if it is perched or true groundwater at 10' and if we missed the groundwater at 10'-25'. (RJF) 5/31/2006 - Feng - Have been discussed with DEC Joe Sun. Spill closed for: 1) source removal, soil was excavated down to 12' bg and endpoint samples are in low concentration. 2) The groundwater encountered at about 10 feet is perched water due to low recharge. 3) The groundwater samples taken from 12' bg in Phase II is present in fill material (fill material found from 12' to 20' bg). 4) 5 Groundwater samples collected from 25' to 35' bg show low contamination (given that contaminants are PCE and TCE, deeper gw was selected). 5) Sensitive Receptor survey was done and it is fine. Spill closed and NFA issued. (RJF)"

Remarks: ""

All Materials:

Site ID:	346803
Operable Unit ID:	1104563
Operable Unit:	01
Material ID:	584786
Material Code:	0055A
Material Name:	paint
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	346803
Operable Unit ID:	1104563
Operable Unit:	01
Material ID:	584785
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

T150 **ENEQUIST CHEMICAL CO. INC.** **NY CBS** **S106971941**
South **100 VARICK AVENUE** **NY AST** **N/A**
1/8-1/4 **BROOKLYN, NY 11237** **NY Spills**
0.211 mi.
1112 ft. **Site 5 of 7 in cluster T**

Relative: **Lower**

Actual: **13 ft.**

CBS:

Name:	ENEQUIST CHEMICAL CO. INC.
Address:	100 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
CBS Number:	2-000027
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	590606.88886

ENEQUIST CHEMICAL CO. INC. (Continued) **S106971941**

UTMY: 4507068.33341

AST:

Name:	ENEQUIST CHEMICAL CO. INC.
Address:	100 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-000027
Program Type:	CBS
UTM X:	590606.88886
UTM Y:	4507068.33341
Expiration Date:	N/A
Site Type:	Chemical Distributor

Tank Info:

Tank Number:	001
Tank Id:	183131
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Stainless Steel Alloy
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	07/01/1961
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	08/01/1992
Register:	True
Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

Tank Number:	002
Tank Id:	183132
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Fiberglass Reinforced Plastic
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	03/01/1974
Capacity Gallons:	6000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	08/01/1992
Register:	True
Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

Tank Number: 003

ENEQUIST CHEMICAL CO. INC. (Continued) **S106971941**

Tank Id:	183133
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	07/01/1961
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	08/01/1992
Register:	True
Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

Tank Number:	004
Tank Id:	183134
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	07/01/1961
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	08/01/1992
Register:	True
Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

Tank Number:	005
Tank Id:	183135
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	10/01/1979
Capacity Gallons:	6000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	08/01/1992
Register:	True
Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

Tank Number:	006

ENEQUIST CHEMICAL CO. INC. (Continued) **S106971941**

Tank Id:	183136
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	10/01/1988
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/14/2006
Register:	True
Modified By:	KAKYER
Last Modified:	02/20/2007
Material Name:	Not reported

Tank Number:	007
Tank Id:	183137
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	11/01/1988
Capacity Gallons:	1500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/14/2006
Register:	True
Modified By:	KAKYER
Last Modified:	02/20/2007
Material Name:	Not reported

SPILLS:

Name:	100 VARICK/ENEQUIST CHEM
Address:	100 VARICK ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9202219 / 1994-11-23
Facility ID:	9202219
Facility Type:	ER
DER Facility ID:	258768
Site ID:	321213
DEC Region:	2
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	2401
Spill Date:	1992-05-22
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1992-05-22
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Local Agency

ENEQUIST CHEMICAL CO. INC. (Continued) **S106971941**

Cleanup Ceased:	1994-11-23
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-05-29
Spill Record Last Update:	2002-11-01
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"FD & DEP HAZ MAT TEAMS ON SCENE; WATER VAPOR AND CLOUD OBSERVED."

All Materials:

Site ID:	321213
Operable Unit ID:	966307
Operable Unit:	01
Material ID:	413486
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

W151 **NEWTOWN USED AUTO PARTS/SCRAP METAL PROCESSOR** **NY AST** **A100295268**
West **1074 GRAND STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.211 mi.
1114 ft. **Site 1 of 6 in cluster W**

Relative:
Lower

Actual:
13 ft.

AST:

Name:	NEWTOWN USED AUTO PARTS/SCRAP METAL PROCESSOR
Address:	1074 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11237
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-610198
Program Type:	PBS
UTM X:	590108.01017
UTM Y:	4507519.62934
Expiration Date:	N/A
Site Type:	Other

Affiliation Records:

Site Id:	363543
Affiliation Type:	Facility Owner
Company Name:	FREDERICK KIRSCHBAUM
Contact Type:	MANAGER
Contact Name:	GEORGE KIRSCHBAUM
Address1:	1935 S.E. 21ST
Address2:	Not reported

NEWTOWN USED AUTO PARTS/SCRAP METAL PROCESSOR (Continued) **A100295268**

City:	CAPE CORAL
State:	FL
Zip Code:	33990
Country Code:	001
Phone:	(347) 386-3391
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2006-05-05

Site Id:	363543
Affiliation Type:	Mail Contact
Company Name:	NEWTOWN USED AUTO PARTS/
Contact Type:	Not reported
Contact Name:	GEORGE KIRSCHBAUM
Address1:	SCRAP METAL PROCESSORS
Address2:	1074 GRAND STREET
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 599-2300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2006-05-05

Site Id:	363543
Affiliation Type:	Facility Operator
Company Name:	NEWTOWN USED AUTO PARTS/SCRAP METAL PROCESSOR
Contact Type:	Not reported
Contact Name:	FREDERICK KIRSCHBAUM
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 599-2300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2006-05-05

Site Id:	363543
Affiliation Type:	Emergency Contact
Company Name:	FREDERICK KIRSCHBAUM
Contact Type:	Not reported
Contact Name:	GEORGE KIRSCHBAUM
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 682-8858
EMail:	Not reported

NEWTOWN USED AUTO PARTS/SCRAP METAL PROCESSOR (Continued) **A100295268**

Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2006-05-05

Tank Info:

Tank Number:	1
Tank Id:	211521
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

A00 - Tank Internal Protection - None
I01 - Overfill - Float Vent Valve
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
J01 - Dispenser - Pressurized Dispenser
D00 - Pipe Type - No Piping
L00 - Piping Leak Detection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
G00 - Tank Secondary Containment - None
E00 - Piping Secondary Containment - None

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Plastic
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	07/01/2005
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	11/01/2010
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

W152 **NEWTOWN AUTO SALES & AUTO PARTS INC** **NY SWF/LF** **S108146024**
West **1074 GRAND STREET** **NY SPDES** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.211 mi.
1114 ft. **Site 2 of 6 in cluster W**

Relative:
Lower

Actual:
13 ft.

SWF/LF:

Name:	NEWTOWN AUTO SALES & AUTO PARTS INC
Address:	1074 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11211
Flag:	INACTIVE
Region Code:	2
Phone Number:	7185992300
Owner Name:	New Town Used Auto Sales & Auto Parts; Inc.
Owner Type:	Private
Owner Address:	1074 Grand Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Email:	Not reported

NEWTOWN AUTO SALES & AUTO PARTS INC (Continued) **S108146024**

Owner Phone:	7185992300
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	VDF - large - registration
Activity Number:	[24V50009]
Active:	No
East Coordinate:	590127
North Coordinate:	4507524
Accuracy Code:	4.2 - Utilization of GIS and existing spatial data
Regulatory Status:	Registration
Waste Type:	End of Life Vehicles
Authorization #:	24V50009
Authorization Date:	2/27/2020
Expiration Date:	2/26/2025
Operator Name:	New Town Used Auto Sales & Auto Parts; Inc.
Operator Type:	Not reported
Laste Date:	Not reported

Name:	NEWTOWN AUTO SALES & AUTO PARTS INC
Address:	1074 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11211
Flag:	INACTIVE
Region Code:	2
Phone Number:	7185992300
Owner Name:	New Town Used Auto Sales & Auto Parts; Inc.
Owner Type:	Private
Owner Address:	1074 Grand Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Email:	Not reported
Owner Phone:	7185992300
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling Facility
Activity Number:	[7096848]
Active:	No
East Coordinate:	590131
North Coordinate:	4507523
Accuracy Code:	4.2 - Utilization of GIS and existing spatial data
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	New Town Used Auto Sales & Auto Parts; Inc.
Operator Type:	Not reported
Laste Date:	Not reported

NEWTOWN AUTO SALES & AUTO PARTS INC (Continued) **S108146024**

SPDES:

Name:	NEW TOWN USED AUTO SALES & PARTS INC
Address:	1074 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211
Permit Number:	NYR00E019
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor
Primary Facility SIC Code:	5015
State Water Body Name:	ENGLISH KILLS
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.713 / -73.933
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	TABS CONSULTING GROUP INC
Non-Gov Permit Street Address:	NEW TOWN USED AUTO SALES & PARTS INC
Non-Gov Permit Supplemental Location:	2 52ND ST, BOX B11
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11223
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	NEW TOWN USED AUTO SALES & PARTS INC
Non-Gov Facility Street Address:	NEW TOWN USED AUTO SALES & PARTS INC
Non-Gov Facility Supplemental Location:	1074 GRAND ST
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Name:	NEW TOWN USED AUTO SALES & PARTS INC
Address:	1074 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	NEW TOWN USED AUTO SALES AND AUTO PARTS INC
Non-Gov Permit Street Address:	1074 GRAND ST
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN

NEWTOWN AUTO SALES & AUTO PARTS INC (Continued) **S108146024**

Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	NEW TOWN USED AUTO SALES & PARTS INC
Non-Gov Facility Street Address:	NEW TOWN USED AUTO SALES & PARTS INC
Non-Gov Facility Supplemental Location:	1074 GRAND ST
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Name:	NEW TOWN USED AUTO SALES & PARTS INC
Address:	1074 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	NEW TOWN USED AUTO SALES & PARTS INC
Non-Gov Facility Street Address:	NEW TOWN USED AUTO SALES & PARTS INC
Non-Gov Facility Supplemental Location:	1074 GRAND ST
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Q153 **GADS INC** **NY SWF/LF** **S107406892**
East **594 SCHOLES STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.213 mi.
1123 ft. **Site 2 of 4 in cluster Q**

Relative: **Higher**

Actual: **16 ft.**

SWF/LF:

Name:	GADS INC
Address:	594 SCHOLES STREET
City,State,Zip:	BROOKLYN, NY 11237
Flag:	ACTIVE
Region Code:	2
Phone Number:	7184162190
Owner Name:	Michael Allocco
Owner Type:	Private
Owner Address:	540 Kingsland Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222
Owner Email:	Not reported
Owner Phone:	7183493094
Contact Name:	Anthony Strano
Contact Address:	594 Scholes Street
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY 11237
Contact Email:	anthony@alloccorecycling.com
Contact Phone:	7184182190
Activity Desc:	C&D processing - permit
Activity Number:	[24WF7]
Active:	Yes
East Coordinate:	590889
North Coordinate:	4507379
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Construction & Demolition Debris;Metals (Ferrous);Metals (Non-Ferrous);Concrete;Paper / Cardboard;Plastics;Wood (Chips);Wood (Unadulterated)
Authorization #:	2-6104-01347/00001
Authorization Date:	9/20/2021
Expiration Date:	9/16/2026
Operator Name:	Michael Allocco
Operator Type:	Private
Laste Date:	Not reported

Q154 **BFI WASTE SERVICES OF NJ, INC.** **NY AST** **A100159805**
East **594 SCHOLES STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.213 mi.
1123 ft. **Site 3 of 4 in cluster Q**

Relative: **Higher**

Actual: **16 ft.**

AST:

Name:	BFI WASTE SERVICES OF NJ, INC.
Address:	594 SCHOLES STREET
City,State,Zip:	BROOKLYN, NY 11237
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-604450
Program Type:	PBS
UTM X:	590901.87620
UTM Y:	4507326.39538

BFI WASTE SERVICES OF NJ, INC. (Continued) **A100159805**

Expiration Date: 02/25/2010
Site Type: Trucking/Transportation/Fleet Operation

Affiliation Records:
Site Id: 26324
Affiliation Type: Facility Owner
Company Name: BFI WAST SERVICES OF NJ, INC.
Contact Type: GENERAL MANAGER
Contact Name: NICHOLAS FYTROS
Address1: 72 SCOTT AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11237
Country Code: 001
Phone: (718) 497-4000
EMail: Not reported
Fax Number: Not reported
Modified By: EXROSSAN
Date Last Modified: 2005-03-28

Site Id: 26324
Affiliation Type: Mail Contact
Company Name: BFI WASTE SERVICES OF NJ, INC.
Contact Type: Not reported
Contact Name: SAM RIVERA, MAINT MGR
Address1: 72 SCOTT AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11237
Country Code: 001
Phone: (718) 497-4000
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 2005-02-16

Site Id: 26324
Affiliation Type: Facility Operator
Company Name: BFI WASTE SERVICES OF NJ, INC.
Contact Type: Not reported
Contact Name: SAM RIVERA/MAINT MANAGER
Address1: Not reported
Address2: Not reported
City: Not reported
State: NY
Zip Code: Not reported
Country Code: 001
Phone: (718) 497-4000
EMail: Not reported
Fax Number: Not reported
Modified By: EXROSSAN
Date Last Modified: 2005-03-28

Site Id: 26324
Affiliation Type: Emergency Contact
Company Name: BFI WAST SERVICES OF NJ, INC.

BFI WASTE SERVICES OF NJ, INC. (Continued) **A100159805**

Contact Type:	Not reported
Contact Name:	SAM RIVERA/MAINT MANAGER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 497-5169 119
EMail:	Not reported
Fax Number:	Not reported
Modified By:	EXROSSAN
Date Last Modified:	2005-03-28

Tank Info:

Tank Number:	01
Tank Id:	57797
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

J02 - Dispenser - Suction Dispenser
G04 - Tank Secondary Containment - Double-Walled (Underground)
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I02 - Overfill - High Level Alarm
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None

Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	05/01/1999
Capacity Gallons:	4000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KXTANG
Last Modified:	04/14/2017
Material Name:	diesel

T155 **CON EDISON - MANHOLE 43894** **RCRA-LQG** **1016150117**
South **VARICK AVE** **NYP004287884**
1/8-1/4 **BROOKLYN, NY 11237**
0.213 mi.
1125 ft. **Site 6 of 7 in cluster T**

Relative: **Lower**
Actual: **13 ft.**

RCRA-LQG:

Date Form Received by Agency:	20140327
Handler Name:	CON EDISON - MANHOLE 43894
Handler Address:	VARICK AVE
Handler City,State,Zip:	BROOKLYN, NY 11237
EPA ID:	NYP004287884
Contact Name:	DENNIS HUACON
Contact Address:	IRVING PLACE, 15TH FL NE
Contact City,State,Zip:	NEW YORK, NY 10003
Contact Telephone:	212-460-2757
Contact Fax:	518-473-8034
Contact Email:	HUACOND@CONED.COM
Contact Title:	ASSOCIATE SCIENTIST
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2013
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	IRVING PLACE, 15TH FL NE
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner Type:	Private
Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

CON EDISON - MANHOLE 43894 (Continued) **1016150117**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2013

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private
Date Became Current:	20130208
Date Ended Current:	Not reported
Owner/Operator Address:	4 IRVING PLACE
Owner/Operator City,State,Zip:	NEW YORK, NY 10003
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Legal Status:	Private

CON EDISON - MANHOLE 43894 (Continued) **1016150117**

Date Became Current: 20130208
Date Ended Current: Not reported
Owner/Operator Address: 4 IRVING PLACE
Owner/Operator City,State,Zip: NEW YORK, NY 10003
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20140327
Handler Name: CON EDISON - MANHOLE 43894
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20130208
Handler Name: CON EDISON MANHOLE: 43894
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 221122
NAICS Description: ELECTRIC POWER DISTRIBUTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

T156 **CON EDISON** **NY MANIFEST** **S119073535**
South **VARICK AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.213 mi.
1125 ft. **Site 7 of 7 in cluster T**

Relative:
Lower

Actual:
13 ft.

NY MANIFEST:

Name:	CON EDISON
Address:	VARICK AVE
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP004287884
Facility Status:	Not reported
Location Address 1:	OPP 98 VARICK AVE
Code:	BP
Location Address 2:	MH 43894
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11211
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004287884
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE - 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	02/08/2013
Trans1 Recv Date:	02/08/2013
Trans2 Recv Date:	02/11/2013
TSD Site Recv Date:	02/11/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004287884
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002015966GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N

CON EDISON (Continued) **S119073535**

Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	300
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Q157 **BFI (598-636 SCHOLES STREET)** **NY SWF/LF** **S112258024**
East **598-636 SCHOLES STREET** **NY SWRCY** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.215 mi.
1137 ft. **Site 4 of 4 in cluster Q**

Relative: **Higher**

Actual: **16 ft.**

SWF/LF:

Name:	BFI (598-636 SCHOLES STREET)
Address:	598-636 SCHOLES STREET
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	6102866844
Owner Name:	BFI Waste Systems of New Jersey
Owner Type:	Private
Owner Address:	420 Quarry Road
Owner Addr2:	Not reported
Owner City,St,Zip:	Morgantown, PA 19543
Owner Email:	Not reported
Owner Phone:	6102866844
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24T25]
Active:	No
East Coordinate:	590859
North Coordinate:	4507332
Accuracy Code:	Not reported

BFI (598-636 SCHOLES STREET) (Continued) **S112258024**

Regulatory Status:	None
Waste Type:	MSW (Residential/Institutional & Commercial)
Authorization #:	2-6104-00022/00001
Authorization Date:	11/30/2010
Expiration Date:	11/30/2015
Operator Name:	Mark Pedersen
Operator Type:	Private
Laste Date:	Not reported

SWRCY:

Name:	BFI (598-636 SCHOLES STREET)
Address:	598-636 SCHOLES STREET
City,State,Zip:	BROOKLYN, NY 11237
Region:	2
Facility Address 2:	Not reported
Phone Number:	6102866844
Owner Type:	Private
Owner Name:	BFI Waste Systems of New Jersey
Owner Address:	420 Quarry Road
Owner Address 2:	Not reported
Owner City,St,Zip:	Morgantown, PA 19543
Owner Email:	Not reported
Owner Phone:	6102866844
Contact Name:	Not reported
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	RHRF - registration
Activity Number:	[24M25]
Active:	No
East Coordinate:	590859
North Coordinate:	4507332
Accuracy Code:	Not reported
Regulatory Status:	None
Permit #:	2-6104-00022/00001
Auth. Date:	11/30/2010
Expiration Date:	11/30/2015
Waste Types:	Commingled Recyclables;Commingled Paper
Operator Name:	Mark Pedersen
Operator Type:	Private
Last Date:	Not reported

W158 **CLOSED-LACKOF RECENT INFO** **NY LTANKS** **S100346426**
WNW **1105 METROPOLITAN AV** **N/A**
1/8-1/4 **NYC, NY**
0.217 mi.
1144 ft. **Site 3 of 6 in cluster W**

Relative:
Lower

Actual:
11 ft.

LTANKS:

Name:	CLOSED-LACKOF RECENT INFO
Address:	1105 METROPOLITAN AV
City,State,Zip:	NYC, NY
Spill Number/Closed Date:	8802460 / 2003-03-05
Facility ID:	8802460
Site ID:	183945

CLOSED-LACKOF RECENT INFO (Continued) **S100346426**

Spill Date:	1988-06-17
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	ADMIN. CLOSED
Referred To:	Not reported
Reported to Dept:	1988-06-17
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1988-06-24
Spill Record Last Update:	2003-03-18
Spiller Name:	CONTACT JOE
Spiller Company:	STERLING OPTICAL
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	153958
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ADMIN.CLOSED / / : Replace Vent Line, Empty Tank & Retest. 03/05/2003- Closed Due To The Nature / Extent Of The Spill Report"
Remarks:	"L R =-20 GPH. NEVER STABILIZED 7.5K TANK.CLOSED DUE TO LACK OF ANY RECENT INFO- DOES NOT MEET ANY CLEAN UP REQUIREMENTS."

All TTF:

Facility ID:	8802460
Spill Number:	8802460
Spill Tank Test:	1534139
Site ID:	183945
Tank Number:	Not reported
Tank Size:	0
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	183945
Operable Unit ID:	919680
Operable Unit:	01

CLOSED-LACKOF RECENT INFO (Continued) **S100346426**

Material ID:	458025
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

---

159 WNW 1/8-1/4 0.222 mi. 1171 ft.
1101 METROPOLITAN AVE
1101 METROPOLITAN AVE
BROOKLYN, NY

NY LTANKS **S103238306** **N/A**

Relative: Lower
Actual: 10 ft.

LTANKS:

Name:	1101 METROPOLITAN AVE
Address:	1101 METROPOLITAN AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9800642 / 2006-05-17
Facility ID:	9800642
Site ID:	190461
Spill Date:	1998-04-15
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	B4
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1998-04-15
CID:	205
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1998-04-15
Spill Record Last Update:	2006-05-17
Spiller Name:	USA TANKS
Spiller Company:	1101 METROPOLITIAN AVE
Spiller Address:	1101 METROPOLITIAN AVE
Spiller County:	001
Spiller Contact:	USA TANKS
Spiller Phone:	(718) 384-9151
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	158882
DEC Memo:	"5/17/06 - Mike - PBS# 2-109932 Tank was closed in place. Only one tank exsisted at site, Spill Report suggests tank #2 failed but there is no #2 tank. Occupant has documentation for proper closing and of no contamination. March 20, 2006 - have not worked on this spill to date - Jones Next Step - establish contact with site owner as per spill report."

1101 METROPOLITAN AVE (Continued) **S103238306**

Remarks: "TESTED TANK.TANK FAILED."

All TTF:

Facility ID:	9800642
Spill Number:	9800642
Spill Tank Test:	1545783
Site ID:	190461
Tank Number:	1
Tank Size:	3000
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	190461
Operable Unit ID:	1061125
Operable Unit:	01
Material ID:	322598
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

X160 **BLINN DRUG CO** **NY UST** **U000396985**
NW **16 REWE ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.222 mi.
1173 ft. **Site 1 of 3 in cluster X**

Relative:
Lower

Actual:
4 ft.

UST:

Name:	BLINN DRUG CO
Address:	16 REWE ST
City,State,Zip:	BROOKLYN, NY 11211
Id/Status:	2-117501 / Inactive
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590278.47170
UTM Y:	4507804.03037
Site Type:	Other

Affiliation Records:

Site Id:	4009
Affiliation Type:	Facility Owner

BLINN DRUG CO (Continued) **U000396985**

Company Name:	BLINN DRUG CO
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	16 REWE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 963-1606
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	4009
Affiliation Type:	Mail Contact
Company Name:	BLINN DRUG CO
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	16 REWE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 963-1606
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	4009
Affiliation Type:	Facility Operator
Company Name:	BLINN DRUG CO
Contact Type:	Not reported
Contact Name:	WILLIAM BLINDERMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 963-1606
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	4009
Affiliation Type:	Emergency Contact
Company Name:	BLINN DRUG CO
Contact Type:	Not reported
Contact Name:	WILLIAM BLINDERMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported

BLINN DRUG CO (Continued) **U000396985**

State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 963-1606
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Tank Info:

Tank Number: 001
Tank ID: 8583
Tank Status: Tank Converted to Non-Regulated Use
Material Name: Tank Converted to Non-Regulated Use
Capacity Gallons: 3000
Install Date: Not reported
Date Tank Closed: 03/01/2000
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: 03
Date Test: 02/01/1988
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Y161 **A&I REALTY** **RCRA NonGen / NLR** **1023968722**
NNW **20 REWE ST** **FINDS** **NYR000233767**
1/8-1/4 **BROOKLYN, NY 11211**
0.224 mi.
1182 ft. **Site 1 of 3 in cluster Y**

Relative:
Lower

Actual:
3 ft.

RCRA NonGen / NLR:

Date Form Received by Agency: 20180912
Handler Name: A&I REALTY
Handler Address: 20 REWE ST
Handler City,State,Zip: BROOKLYN, NY 11211
EPA ID: NYR000233767
Contact Name: JIM HOLIBER
Contact Address: E TREMONT AVE
Contact City,State,Zip: BRONX, NY 10461
Contact Telephone: 718-792-8800 1002

A&I REALTY (Continued) **1023968722**

Contact Fax:	718-408-2021
Contact Email:	JHOLIBER@MARJAM.COM
Contact Title:	CHIEF COUNSEL
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	E TREMONT AVE
Mailing City,State,Zip:	BRONX, NY 10461
Owner Name:	A&I REALTY CORP
Owner Type:	Private
Operator Name:	MARJAM SUPPLY CO INC AS TENANT
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A

A&I REALTY (Continued) **1023968722**

Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180912
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D012
Waste Description:	ENDRIN (1,2,3,4,10,10-HEXACHLORO-1,7-EPOXY-1,4,4A,5,6,7,8,8A-OCTAHYDRO-1,4-ENDO, ENDO-5,8-DIMETH-ANO-NAPHTHALENE)
Waste Code:	D013
Waste Description:	LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)
Waste Code:	D014
Waste Description:	METHOXYCHLOR (1,1,1-TRICHLORO-2,2-BIS [P-METHOXYPHENYL] ETHANE)
Waste Code:	D015
Waste Description:	TOXAPHENE (C10 H10 CL8, TECHNICAL CHLORINATED CAMPHENE, 67-69 PERCENT CHLORINE)

A&I REALTY (Continued) **1023968722**

Waste Code: D016
Waste Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Waste Code: D017
Waste Description: 2,4,5-TP SILVEX (2,4,5-TRICHLOROPHENOXYPROPIONIC ACID)

Waste Code: D018
Waste Description: BENZENE

Waste Code: D019
Waste Description: CARBON TETRACHLORIDE

Waste Code: D020
Waste Description: CHLORDANE

Waste Code: D021
Waste Description: CHLOROBENZENE

Waste Code: D022
Waste Description: CHLOROFORM

Waste Code: D023
Waste Description: O-CRESOL

Waste Code: D024
Waste Description: M-CRESOL

Waste Code: D025
Waste Description: P-CRESOL

Waste Code: D026
Waste Description: CRESOL

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D028
Waste Description: 1,2-DICHLOROETHANE

Waste Code: D029
Waste Description: 1,1-DICHLOROETHYLENE

Waste Code: D030
Waste Description: 2,4-DINITROTOLUENE

Waste Code: D031
Waste Description: HEPTACHLOR (AND ITS EPOXIDE)

Waste Code: D032
Waste Description: HEXACHLOROBENZENE

Waste Code: D033
Waste Description: HEXACHLOROBUTADIENE

Waste Code: D034
Waste Description: HEXACHLOROETHANE

A&I REALTY (Continued) **1023968722**

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D036
Waste Description: NITROBENZENE

Waste Code: D037
Waste Description: PENTACHLOROPHENOL

Waste Code: D038
Waste Description: PYRIDINE

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: A&I REALTY CORP
Legal Status: Private
Date Became Current: 19830718
Date Ended Current: Not reported
Owner/Operator Address: 885 CONKLIN ST
Owner/Operator City,State,Zip: FARMINGDALE, NY 11735
Owner/Operator Telephone: 718-792-8800
Owner/Operator Telephone Ext: 1002
Owner/Operator Fax: 718-408-2021
Owner/Operator Email: JHOLIBER@MARJAM.COM

Owner/Operator Indicator: Operator
Owner/Operator Name: MARJAM SUPPLY CO INC AS TENANT
Legal Status: Private
Date Became Current: 19830718
Date Ended Current: Not reported
Owner/Operator Address: 885 CONKLIN ST
Owner/Operator City,State,Zip: FARMINGDALE, NY 11735
Owner/Operator Telephone: 718-792-8800
Owner/Operator Telephone Ext: 1002
Owner/Operator Fax: 718-408-2021
Owner/Operator Email: JHOLIBER@MARJAM.COM

Owner/Operator Indicator: Operator
Owner/Operator Name: MARJAM SUPPLY CO INC AS TENANT
Legal Status: Private
Date Became Current: 19830718
Date Ended Current: Not reported
Owner/Operator Address: 885 CONKLIN ST
Owner/Operator City,State,Zip: FARMINGDALE, NY 11735
Owner/Operator Telephone: 718-792-8800
Owner/Operator Telephone Ext: 1002
Owner/Operator Fax: 718-408-2021
Owner/Operator Email: JHOLIBER@MARJAM.COM

Owner/Operator Indicator: Owner
Owner/Operator Name: A&I REALTY CORP
Legal Status: Private
Date Became Current: 19830718
Date Ended Current: Not reported
Owner/Operator Address: 885 CONKLIN ST
Owner/Operator City,State,Zip: FARMINGDALE, NY 11735
Owner/Operator Telephone: 718-792-8800

A&I REALTY (Continued) **1023968722**

Owner/Operator Telephone Ext: 1002
Owner/Operator Fax: 718-408-2021
Owner/Operator Email: JHOLIBER@MARJAM.COM

Historic Generators:
Receive Date: 20180912
Handler Name: A&I REALTY
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20171101
Handler Name: A&I REALTY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 42331
NAICS Description: LUMBER, PLYWOOD, MILLWORK, AND WOOD PANEL MERCHANT WHOLESALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110070205728

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A&I REALTY (Continued) **1023968722**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Y162 **A&I REALTY** **NY MANIFEST** **S121968986**
NNW **20 REWE ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.224 mi.
1182 ft. **Site 2 of 3 in cluster Y**

Relative: **Lower**
Actual: **3 ft.**

NY MANIFEST:

Name:	A&I REALTY
Address:	20 REWE ST
City,State,Zip:	BROOKLYN, NY 11211
Country:	USA
EPA ID:	NYR000233767
Facility Status:	Not reported
Location Address 1:	20 REWE ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11211
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000233767
Mailing Name:	A&I REALTY
Mailing Contact:	A&I REALTY
Mailing Address 1:	20 REWE ST
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11211
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

W163 **ACME ALBERT STEEL DRUM INC** **RCRA NonGen / NLR** **1000195208**
West **1050 GRAND ST** **FINDS** **NYD000390716**
1/8-1/4 **BROOKLYN, NY 11211** **ECHO**
0.224 mi. **NY MANIFEST**
1184 ft. **Site 4 of 6 in cluster W**

Relative: **Higher**
Actual: **14 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20070101
Handler Name:	ACME ALBERT STEEL DRUM INC
Handler Address:	1050 GRAND ST
Handler City,State,Zip:	BROOKLYN, NY 11211-1701
EPA ID:	NYD000390716
Contact Name:	Not reported
Contact Address:	GRAND ST
Contact City,State,Zip:	BROOKLYN, NY 11211
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Contact Title:	Not reported
EPA Region:	02
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	GRAND ST
Mailing City,State,Zip:	BROOKLYN, NY 11211
Owner Name:	ACME ALBERT STEEL DRUM INC
Owner Type:	Private
Operator Name:	ACME ALBERT STEEL DRUM INC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	F017
Waste Description:	Not Defined
Waste Code:	U220
Waste Description:	BENZENE, METHYL- (OR) TOLUENE
Waste Code:	U239
Waste Description:	BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ACME ALBERT STEEL DRUM INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	ACME ALBERT STEEL DRUM INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Owner/Operator Indicator: Operator
Owner/Operator Name: ACME ALBERT STEEL DRUM INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19990708
Handler Name: ACME ALBERT STEEL DRUM INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: ACME ALBERT STEEL DRUM INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: ACME ALBERT STEEL DRUM INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19800818
Handler Name: ACME ALBERT STEEL DRUM INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 42184
NAICS Description: INDUSTRIAL SUPPLIES WHOLESALERS

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 19850605
Actual Return to Compliance Date: 19860212
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19850605
Actual Return to Compliance Date: 19860212
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19860110
Enforcement Identifier: 001
Date of Enforcement Action: 19851210
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYDEC

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19850605
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19860212
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19990902
Evaluation Responsible Agency: EPA
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R2TM
Evaluation Responsible Sub-Organization: RCB
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19850605
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYDEC
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19860212
Scheduled Compliance Date: 19860110
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

FINDS:

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Registry ID: 110001573761

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000195208
Registry ID:	110001573761
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001573761
Name:	ACME ALBERT STEEL DRUM INC
Address:	1050 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211

NY MANIFEST:

Name:	ACME ALBERT STEEL DRUM INC
Address:	1050 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211-1701
Country:	USA
EPA ID:	NYD000390716
Facility Status:	Not reported
Location Address 1:	1050 GRAND ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11211
Location Zip 4:	1701

NY MANIFEST:

EPAID:	NYD000390716
Mailing Name:	ACME ALBERT STEEL DRUM INC
Mailing Contact:	SEIGEL GERALD PRES
Mailing Address 1:	1050 GRAND ST
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11211
Mailing Zip 4:	1701
Mailing Country:	USA
Mailing Phone:	2123841616

X164 **12 REWE STREET LLC** **NY AST** **A100293860**
NW **12 REWE STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.226 mi.
1191 ft. **Site 2 of 3 in cluster X**

Relative:
Lower

Actual:
5 ft.

AST:

Name:	12 REWE STREET LLC
Address:	12 REWE STREET
City,State,Zip:	BROOKLYN, NY 11211
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-608670
Program Type:	PBS
UTM X:	590246.73166
UTM Y:	4507792.59936
Expiration Date:	N/A
Site Type:	Other

Affiliation Records:

Site Id:	30522
Affiliation Type:	Facility Owner
Company Name:	12 REWE STREET LLC
Contact Type:	Not reported
Contact Name:	PAUL BARY
Address1:	20 REWE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 388-6465
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-01-19

Site Id:	30522
Affiliation Type:	Mail Contact
Company Name:	12 REWE STREET LLC
Contact Type:	Not reported
Contact Name:	JM HOLIBER
Address1:	20 REWE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 388-6465
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-01-19

Site Id:	30522
Affiliation Type:	Facility Operator
Company Name:	12 REWE STREET LLC
Contact Type:	Not reported
Contact Name:	PAUL BANY

12 REWE STREET LLC (Continued) **A100293860**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 388-6465
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JAAVERSA
Date Last Modified:	2017-05-25

Site Id:	30522
Affiliation Type:	Emergency Contact
Company Name:	12 REWE STREET LLC
Contact Type:	Not reported
Contact Name:	PAUL BARY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(631) 682-3074
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-01-19

Tank Info:

Tank Number:	01
Tank Id:	65474
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

	J02 - Dispenser - Suction Dispenser
	G00 - Tank Secondary Containment - None
	H00 - Tank Leak Detection - None
	I02 - Overfill - High Level Alarm
	L09 - Piping Leak Detection - Exempt Suction Piping
	B00 - Tank External Protection - None
	F00 - Pipe External Protection - None
	C01 - Pipe Location - Aboveground
	A00 - Tank Internal Protection - None
	D01 - Pipe Type - Steel/Carbon Steel/Iron
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	10/28/2016
Capacity Gallons:	5000
Tightness Test Method:	-
Date Test:	Not reported

12 REWE STREET LLC (Continued) **A100293860**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMPOKRZY
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

X165 **12 REWE STREET LLC** **NY UST** **U004062595**
NW **12 REWE STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.226 mi.
1191 ft. **Site 3 of 3 in cluster X**

Relative:
Lower

Actual:
5 ft.

UST:

Name:	12 REWE STREET LLC
Address:	12 REWE STREET
City,State,Zip:	BROOKLYN, NY 11211
Id/Status:	2-608670 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590246.73166
UTM Y:	4507792.59936
Site Type:	Other

Affiliation Records:

Site Id:	30522
Affiliation Type:	Facility Owner
Company Name:	12 REWE STREET LLC
Contact Type:	Not reported
Contact Name:	PAUL BARY
Address1:	20 REWE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 388-6465
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-01-19

Site Id:	30522
Affiliation Type:	Mail Contact
Company Name:	12 REWE STREET LLC
Contact Type:	Not reported
Contact Name:	JM HOLIBER
Address1:	20 REWE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 388-6465
EMail:	Not reported
Fax Number:	Not reported

12 REWE STREET LLC (Continued) **U004062595**

Modified By: DMPOKRZY
Date Last Modified: 2017-01-19

Site Id: 30522
Affiliation Type: Facility Operator
Company Name: 12 REWE STREET LLC
Contact Type: Not reported
Contact Name: PAUL BANY
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 388-6465
EMail: Not reported
Fax Number: Not reported
Modified By: JAAVERSA
Date Last Modified: 2017-05-25

Site Id: 30522
Affiliation Type: Emergency Contact
Company Name: 12 REWE STREET LLC
Contact Type: Not reported
Contact Name: PAUL BARY
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (631) 682-3074
EMail: Not reported
Fax Number: Not reported
Modified By: DMPOKRZY
Date Last Modified: 2017-01-19

Tank Info:

Tank Number: 100
Tank ID: 66160
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 5000
Install Date: 10/28/2016
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: DMPOKRZY

12 REWE STREET LLC (Continued) **U004062595**

Last Modified: 04/14/2017

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
I05 - Overfill - Vent Whistle

U166 **AVALANCHE CONTRACTING; INC. (COTOIA)** **NY SWF/LF** **S108950342**
ENE **46-26 METROPOLITAN AVENUE** **N/A**
1/8-1/4 **MASPETH, NY 11378**
0.227 mi.
1196 ft. **Site 3 of 5 in cluster U**

Relative: **Lower**
Actual: **11 ft.**

SWF/LF:

Name:	AVALANCHE CONTRACTING; INC. (COTOIA)
Address:	46-26 METROPOLITAN AVENUE
City,State,Zip:	MASPETH, NY 11378
Flag:	INACTIVE
Region Code:	2
Phone Number:	7183811134
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	MARCANGELO COTOIA
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[41W29]
Active:	No
East Coordinate:	590922
North Coordinate:	4507548
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6305-00020
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

167
NE
1/8-1/4
0.230 mi.
1217 ft.

CHARLES J KING INC
1301 GRAND ST
BROOKLYN, NY 11211

NY SWF/LF **1000231689**
NY UST **NYD012573648**
NY SWRCY
RCRA NonGen / NLR
NY SPDES

Relative:
Lower

Actual:
6 ft.

SWF/LF:

Name:	EMPIRE METAL TRADING LLC
Address:	1301 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11211
Flag:	ACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Charles J. King Inc.
Owner Type:	Not reported
Owner Address:	1301 Grand Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Email:	wdking@att.net
Owner Phone:	7184975571
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Scrap metal processor - registration
Activity Number:	[24V30001]
Active:	Yes
East Coordinate:	590770
North Coordinate:	4507777
Accuracy Code:	4.2 - Utilization of GIS and existing spatial data
Regulatory Status:	Registration
Waste Type:	Scrap Metal - Ferrous ;Scrap Metal - Non-ferrous
Authorization #:	24V30001
Authorization Date:	11/8/2019
Expiration Date:	11/7/2024
Operator Name:	Empire Metal Trading LLC
Operator Type:	Not reported
Laste Date:	Not reported

UST:

Name:	EMPIRE METAL TRADING LLC
Address:	1301 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11211
Id/Status:	2-001074 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	04/15/2026
UTM X:	590762.19992
UTM Y:	4507778.16059
Site Type:	Other

Affiliation Records:

Site Id:	11
Affiliation Type:	Mail Contact
Company Name:	EMPIRE METAL TRADING LLC
Contact Type:	Not reported

CHARLES J KING INC (Continued) **1000231689**

Contact Name:	WAYNE KING
Address1:	1301 GRAND STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 497-1950
EMail:	WAYNE@EMPIREMETALTRADING.COM
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-09-29

Site Id:	11
Affiliation Type:	Facility Operator
Company Name:	CHARLES J. KING INC.
Contact Type:	Not reported
Contact Name:	WAYNE KING
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-1950
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-09-29

Site Id:	11
Affiliation Type:	Emergency Contact
Company Name:	CHARLES J. KING INC.
Contact Type:	Not reported
Contact Name:	WAYNE KING
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-1950
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-09-29

Site Id:	11
Affiliation Type:	Facility Owner
Company Name:	CHARLES J. KING INC.
Contact Type:	MEMBER
Contact Name:	WAYNE KING
Address1:	1301 GRAND STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211

CHARLES J KING INC (Continued) **1000231689**

Country Code:	001
Phone:	(718) 497-5571
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2019-04-11

Tank Info:

Tank Number:	01
Tank ID:	701
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1957
Date Tank Closed:	11/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	02
Date Test:	05/01/1996
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
G03 - Tank Secondary Containment - Vault (w/o access)
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
H99 - Tank Leak Detection - Other

Tank Number:	02
Tank ID:	51086
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1957
Date Tank Closed:	11/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	02
Date Test:	05/01/1996
Next Test Date:	Not reported

CHARLES J KING INC (Continued) **1000231689**

Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
G03 - Tank Secondary Containment - Vault (w/o access)
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
H99 - Tank Leak Detection - Other

Tank Number: 03
Tank ID: 702
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 12/01/1958
Date Tank Closed: 11/01/1998
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: 02
Date Test: 06/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
G03 - Tank Secondary Containment - Vault (w/o access)
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
H99 - Tank Leak Detection - Other

Tank Number: 04
Tank ID: 51087
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 12/01/1958
Date Tank Closed: 11/01/1998
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel

CHARLES J KING INC (Continued) **1000231689**

Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: 02
Date Test: 06/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H99 - Tank Leak Detection - Other
G03 - Tank Secondary Containment - Vault (w/o access)
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

Tank Number: 05
Tank ID: 703
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 1080
Install Date: 02/08/1974
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: 21
Date Test: 08/15/2016
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: DAFRANCI
Last Modified: 04/11/2019

Equipment Records:

F99 - Pipe External Protection - Other
H05 - Tank Leak Detection - In-Tank System (ATG)
D11 - Pipe Type - Flexible Piping
B07 - Tank External Protection - Retrofitted Sacrificial Anode
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
E04 - Piping Secondary Containment - Double walled UG
I03 - Overfill - Automatic Shut-Off
A01 - Tank Internal Protection - Epoxy Liner
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping

CHARLES J KING INC (Continued) **1000231689**

Tank Number:	06
Tank ID:	51088
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	1080
Install Date:	02/08/1974
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	21
Date Test:	08/15/2016
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DAFRANCI
Last Modified:	04/11/2019

Equipment Records:

F99 - Pipe External Protection - Other
H05 - Tank Leak Detection - In-Tank System (ATG)
A01 - Tank Internal Protection - Epoxy Liner
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
E04 - Piping Secondary Containment - Double walled UG
B07 - Tank External Protection - Retrofitted Sacrificial Anode
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I03 - Overfill - Automatic Shut-Off
D11 - Pipe Type - Flexible Piping

SWRCY:

Name:	CHARLES J KING INC
Address:	1301 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11211
Region:	2
Facility Address 2:	Not reported
Phone Number:	7184971950
Owner Type:	Not reported
Owner Name:	Charles J King Inc
Owner Address:	1301 Grand Street
Owner Address 2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Email:	wdking@att.net
Owner Phone:	7184971950
Contact Name:	Wayne KIng
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	wdking@att;net
Contact Phone:	7184971950
Activity Desc:	RHRF - exempt (non-VDF)
Activity Number:	[24M00]

CHARLES J KING INC (Continued) **1000231689**

Active:	No
East Coordinate:	590770
North Coordinate:	4507777
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Permit #:	Not reported
Auth. Date:	Not reported
Expiration Date:	Not reported
Waste Types:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Last Date:	Not reported

RCRA NonGen / NLR:

Date Form Received by Agency:		20070101
Handler Name:	CHARLES J KING INC	
Handler Address:		1301 GRAND ST
Handler City,State,Zip:		BROOKLYN, NY 11211-1802
EPA ID:		NYD012573648
Contact Name:		Not reported
Contact Address:		GRAND ST
Contact City,State,Zip:		BROOKLYN, NY 11211
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		GRAND ST
Mailing City,State,Zip:		BROOKLYN, NY 11211
Owner Name:		CHARLES J KING INC
Owner Type:		Private
Operator Name:		CHARLES J KING INC
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported

CHARLES J KING INC (Continued) **1000231689**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CHARLES J KING INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CHARLES J KING INC
Legal Status:	Private

CHARLES J KING INC (Continued) **1000231689**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	CHARLES J KING INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990708
Handler Name: CHARLES J KING INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20060101
Handler Name: CHARLES J KING INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20070101
Handler Name: CHARLES J KING INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

CHARLES J KING INC (Continued) **1000231689**

Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19800625
Handler Name:	CHARLES J KING INC
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	42193
NAICS Description:	RECYCLABLE MATERIAL WHOLESALERS

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

CHARLES J KING INC (Continued) **1000231689**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19981023
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R2MD
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SPDES:

Name:	EMPIRE METAL TRADING LLC
Address:	1301 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211
Permit Number:	NYR00A895
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor
Primary Facility SIC Code:	5093
State Water Body Name:	ENGLISH KILLS, NEWTOWN CREEK
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	40.717 / -73.929
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	CHARLES J KING INC
Non-Gov Permit Street Address:	EMPIRE METAL TRADING LLC
Non-Gov Permit Supplemental Location:	1301 GRAND ST
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	CHARLES J KING INC
Non-Gov Facility Street Address:	CHARLES J KING INC
Non-Gov Facility Supplemental Location:	1301 GRAND ST
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	Not reported
Region Permit Processed:	Not reported

CHARLES J KING INC (Continued) **1000231689**

Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	EMPIRE METAL TRADING LLC
Address:	1301 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	CHARLES J KING INC
Non-Gov Permit Street Address:	1301 GRAND ST
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	CHARLES J KING INC
Non-Gov Facility Street Address:	CHARLES J KING INC
Non-Gov Facility Supplemental Location:	1301 GRAND ST
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	EMPIRE METAL TRADING LLC
Address:	1301 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	CHARLES J KING INC
Non-Gov Facility Street Address:	CHARLES J KING INC
Non-Gov Facility Supplemental Location:	1301 GRAND ST

CHARLES J KING INC (Continued) **1000231689**

Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

W168 **GRAND PETROLEUM, LLC** **NY UST** **U000410022**
West **1049 GRAND STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.232 mi.
1223 ft. **Site 5 of 6 in cluster W**

Relative:
Higher

Actual:
15 ft.

UST:

Name:	GRAND PETROLEUM, LLC
Address:	1049 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11211
Id/Status:	2-456969 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	10/21/2023
UTM X:	590088.27907
UTM Y:	4507533.91091
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	20169
Affiliation Type:	Emergency Contact
Company Name:	ATLANTIS MANAGEMENT GROUP II, LLC
Contact Type:	Not reported
Contact Name:	ENVIRONMENTAL HELPDESK
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(914) 699-9500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-10-21

Site Id:	20169
Affiliation Type:	Mail Contact
Company Name:	ATLANTIS MANAGEMENT GROUP II LLC
Contact Type:	Not reported
Contact Name:	ALPER KADIOGLU
Address1:	555 S. COLUMBUS AVENUE
Address2:	SUITE 201
City:	MOUNT VERNON
State:	NY

GRAND PETROLEUM, LLC (Continued) **U000410022**

Zip Code:	10550
Country Code:	001
Phone:	(914) 699-9500
EMail:	ALPER@ATLANTISMGMT.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-02-24

Site Id:	20169
Affiliation Type:	Facility Operator
Company Name:	GRAND PETROLEUM, LLC
Contact Type:	Not reported
Contact Name:	ADNAN TAHINCIOGLU
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 599-1549
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2021-08-13

Site Id:	20169
Affiliation Type:	Facility Owner
Company Name:	ATLANTIS MANAGEMENT GROUP II, LLC
Contact Type:	MEMBER
Contact Name:	ALPER KADIOGLU
Address1:	555 S. COLUMBUS AVE., SUITE 201
Address2:	Not reported
City:	MOUNT VERNON
State:	NY
Zip Code:	10550
Country Code:	001
Phone:	(914) 699-9500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2018-08-10

Tank Info:

Tank Number:	001
Tank ID:	172965
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	6000
Install Date:	Not reported
Date Tank Closed:	07/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0009
Common Name of Substance:	Gasoline

GRAND PETROLEUM, LLC (Continued) **U000410022**

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: cgfreedm
Last Modified: 04/14/2017

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
F03 - Pipe External Protection - Original Impressed Current
J01 - Dispenser - Pressurized Dispenser
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
K01 - Spill Prevention - Catch Basin

Tank Number: 001-A
Tank ID: 6812
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 07/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: 03
Date Test: 03/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Tank Number: 002
Tank ID: 172858
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 6000
Install Date: Not reported
Date Tank Closed: 02/01/2001
Registered: True
Tank Location: Underground
Tank Type: Fiberglass coated steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported

GRAND PETROLEUM, LLC (Continued) **U000410022**

Modified By: cgfreedm
Last Modified: 04/14/2017

Equipment Records:

H05 - Tank Leak Detection - In-Tank System (ATG)
G04 - Tank Secondary Containment - Double-Walled (Underground)
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
C02 - Pipe Location - Underground/On-ground
F03 - Pipe External Protection - Original Impressed Current
J01 - Dispenser - Pressurized Dispenser

Tank Number: 002-A
Tank ID: 172859
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 07/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: 03
Date Test: 03/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Tank Number: 003
Tank ID: 172869
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 6000
Install Date: Not reported
Date Tank Closed: 02/01/2001
Registered: True
Tank Location: Underground
Tank Type: Fiberglass coated steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: cgfreedm
Last Modified: 04/14/2017

GRAND PETROLEUM, LLC (Continued) **U000410022**

Equipment Records:

H05 - Tank Leak Detection - In-Tank System (ATG)
G04 - Tank Secondary Containment - Double-Walled (Underground)
F03 - Pipe External Protection - Original Impressed Current
C02 - Pipe Location - Underground/On-ground
J01 - Dispenser - Pressurized Dispenser
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
A00 - Tank Internal Protection - None
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)

Tank Number:	003-A
Tank ID:	172870
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	03
Date Test:	03/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	004
Tank ID:	36753
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	03
Date Test:	03/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

D02 - Pipe Type - Galvanized Steel

GRAND PETROLEUM, LLC (Continued) **U000410022**

F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number: 005
Tank ID: 36754
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 07/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 03
Date Test: 03/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser

Tank Number: 006
Tank ID: 36755
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 07/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 03
Date Test: 03/01/1993
Next Test Date: Not reported

GRAND PETROLEUM, LLC (Continued) **U000410022**

Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number: 007
Tank ID: 36756
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 07/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 03
Date Test: 03/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number: 008
Tank ID: 36757
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 07/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel

GRAND PETROLEUM, LLC (Continued) **U000410022**

Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 03
Date Test: 03/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number: 009
Tank ID: 36758
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 07/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 03
Date Test: 03/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number: 010
Tank ID: 36759
Tank Status: Closed - Removed
Material Name: Closed - Removed

GRAND PETROLEUM, LLC (Continued) **U000410022**

Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	03
Date Test:	03/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	011
Tank ID:	36760
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	03
Date Test:	03/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

GRAND PETROLEUM, LLC (Continued) **U000410022**

Tank Number:	012
Tank ID:	36761
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	03
Date Test:	03/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	013
Tank ID:	36762
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	03
Date Test:	03/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

GRAND PETROLEUM, LLC (Continued) **U000410022**

D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	014
Tank ID:	36763
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	03
Date Test:	03/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	015
Tank ID:	36764
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

GRAND PETROLEUM, LLC (Continued) **U000410022**

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	016
Tank ID:	36765
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	017
Tank ID:	36766
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	07/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

GRAND PETROLEUM, LLC (Continued) **U000410022**

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Number: 018
Tank ID: 36767
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 07/01/1999
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Number: 1
Tank ID: 172948
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 12000
Install Date: 09/01/2003
Date Tank Closed: Not reported

GRAND PETROLEUM, LLC (Continued) **U000410022**

Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol
Tightness Test Method:	14
Date Test:	01/27/2004
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MSBAPTIS
Last Modified:	04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
E04 - Piping Secondary Containment - Double walled UG
J01 - Dispenser - Pressurized Dispenser
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	1-A
Tank ID:	172950
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	6000
Install Date:	03/01/2002
Date Tank Closed:	01/01/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	2
Tank ID:	172951
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	12000
Install Date:	09/01/2003
Date Tank Closed:	Not reported

GRAND PETROLEUM, LLC (Continued) **U000410022**

Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol
Tightness Test Method:	14
Date Test:	01/27/2004
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MSBAPTIS
Last Modified:	04/14/2017

Equipment Records:

L07 - Piping Leak Detection - Pressurized Piping Leak Detector
G04 - Tank Secondary Containment - Double-Walled (Underground)
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
J01 - Dispenser - Pressurized Dispenser
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
E00 - Piping Secondary Containment - None

Tank Number:	2-A
Tank ID:	172961
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	6000
Install Date:	03/01/2002
Date Tank Closed:	01/01/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	3
Tank ID:	172962
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	12000
Install Date:	09/01/2003
Date Tank Closed:	Not reported

GRAND PETROLEUM, LLC (Continued) **U000410022**

Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	14
Date Test:	01/27/2004
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MSBAPTIS
Last Modified:	04/14/2017

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
J01 - Dispenser - Pressurized Dispenser
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
E00 - Piping Secondary Containment - None
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin

Tank Number:	3-A
Tank ID:	172964
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	6000
Install Date:	03/01/2002
Date Tank Closed:	01/01/2002
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	4
Tank ID:	63600
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	10000
Install Date:	03/01/2002
Date Tank Closed:	03/01/2002

GRAND PETROLEUM, LLC (Continued) **U000410022**

Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	KAKyer
Last Modified:	04/14/2017

Equipment Records:

A03 - Tank Internal Protection - Fiberglass Liner (FRP)
I04 - Overfill - Product Level Gauge (A/G)
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
J01 - Dispenser - Pressurized Dispenser
H05 - Tank Leak Detection - In-Tank System (ATG)
G04 - Tank Secondary Containment - Double-Walled (Underground)

W169 **B P PRODUCTS NORTH AMERICA INC #48359** **RCRA NonGen / NLR** **1007571102**
West **1049 GRAND ST** **NJ MANIFEST** **NYR000126615**
1/8-1/4 **BROOKLYN, NY 11211** **NY MANIFEST**
0.232 mi.
1223 ft. **Site 6 of 6 in cluster W**

Relative:
Higher

Actual:
15 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	20090709
Handler Name:	B P PRODUCTS NORTH AMERICA INC #48359
Handler Address:	1049 GRAND ST
Handler City,State,Zip:	BROOKLYN, NY 11211
EPA ID:	NYR000126615
Contact Name:	PAULA SKRYJA
Contact Address:	PO BOX 6038
Contact City,State,Zip:	ARTESIA, NY 90702-6038
Contact Telephone:	410-551-6074
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	PO BOX 6038
Mailing City,State,Zip:	ARTESIA, NY 90702-6038
Owner Name:	NO NAME FOUND
Owner Type:	Private

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Operator Name:	NO NAME FOUND
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Hazardous Waste Summary:
Waste Code: D018
Waste Description: BENZENE

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: BP PRODUCTS NORTH AMERICA INC
Legal Status: Private
Date Became Current: 20040501
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NO NAME FOUND
Legal Status: Private
Date Became Current: 20040501
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NO NAME FOUND
Legal Status: Private
Date Became Current: 20040501
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: BP PRODUCTS NORTH AMERICA INC
Legal Status: Private
Date Became Current: 20040501
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NO NAME FOUND
Legal Status: Private

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Date Became Current:	20040501
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NO NAME FOUND
Legal Status:	Private
Date Became Current:	20040501
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20060101
Handler Name:	B P PRODUCTS NORTH AMERICA INC #48359
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20070101
Handler Name:	B P PRODUCTS NORTH AMERICA INC #48359
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20090709
Handler Name:	B P PRODUCTS NORTH AMERICA INC #48359
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040729
Handler Name: B P PRODUCTS NORTH AMERICA INC #48359
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44711
NAICS Description: GASOLINE STATIONS WITH CONVENIENCE STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

NJ MANIFEST:
EPA Id: NYR000126615
Mail Address: P.O. BOX 80249
Mail City/State/Zip: RANCHO SANTA 92688
Facility Phone: 9494605200
Emergency Phone: Not reported
Contact: FRANK LOBELLO
Comments: Not reported
SIC Code: Not reported
County: 00
Municipal: 00
Previous EPA Id: Not reported
Gen Flag: X
Trans Flag: Not reported
TSDF Flag: Not reported
Name Change: Not reported
Date Change: Not reported

Manifest:
Manifest Number: 001274608JJK
EPA ID: NYR000126615
Date Shipped: 02/06/2008
TSDF EPA ID: NJD991291105
Transporter EPA ID: NJR000023036
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	02/06/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	02/06/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	RANCHO SANTA 92688
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D018
Hand Code:	H040
Quantity:	200 P

Manifest Number:	001274597JJK
EPA ID:	NYR000126615
Date Shipped:	06/14/2007
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000023036
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/14/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/14/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	RANCHO SANTA 92688
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D018
Hand Code:	H14
Quantity:	200 P

Manifest Number:	NJA5246518
EPA ID:	NYR000126615
Date Shipped:	02/09/2006
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000023036
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	02/09/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	02/09/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	04040621
Was Load Rejected:	RANCHO SANTA 92688
Reason Load Was Rejected:	Not reported

Manifest Number:	001274847JJK
EPA ID:	NYR000126615
Date Shipped:	10/23/2008
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000023036
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	10/23/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	10/23/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	RANCHO SANTA 92688
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D018
Hand Code:	H141
Quantity:	200 P

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Manifest Number:	NJA5246585
EPA ID:	NYR000126615
Date Shipped:	06/19/2006
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000023036
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/19/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/19/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	08070622
Was Load Rejected:	RANCHO SANTA 92688
Reason Load Was Rejected:	Not reported

Manifest Number:	NJA5008728
EPA ID:	NYR000126615
Date Shipped:	12/05/2004
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000023036
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	12/05/2004
Date Trans2 Transported Waste:	Not reported

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	12/06/2004
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	02030521
Was Load Rejected:	RANCHO SANTA 92688
Reason Load Was Rejected:	Not reported

NY MANIFEST:

Name:	AMOCO 48359
Address:	1049 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211
Country:	USA
EPA ID:	NYR000126615
Facility Status:	Not reported
Location Address 1:	1049 GRAND STREET
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN‘
Location State:	NY
Location Zip:	11201
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000126615
Mailing Name:	AMOCO 48359
Mailing Contact:	FRANK LOBELLO
Mailing Address 1:	PO BOX 80249
Mailing Address 2:	Not reported
Mailing City:	RANCHO SANTA MARGARITA
Mailing State:	CA
Mailing Zip:	92688
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	9494605200

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJR000023036
Trans2 State ID:	Not reported
Generator Ship Date:	10/23/2008
Trans1 Recv Date:	10/23/2008
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/23/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000126615
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	001274847JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	Y
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Waste Code:	D018
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

170 NW 1/8-1/4 0.237 mi. 1250 ft. | **8 REWE STREET, LLC**
8 REWE STREET
BROOKLYN, NY 11211 | **NY UST** | **U004076426**
N/A

Relative: Lower

Actual: 6 ft.

UST:

Name:	8 REWE STREET, LLC
Address:	8 REWE STREET
City,State,Zip:	BROOKLYN, NY 11211
Id/Status:	2-114308 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590173.96816
UTM Y:	4507768.11354
Site Type:	Other

Affiliation Records:

Site Id:	3728
Affiliation Type:	Mail Contact
Company Name:	8 REWE STREET, LLC
Contact Type:	Not reported
Contact Name:	BRUCE RESPLER
Address1:	885 CONKLIN STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 388-6465
EMail:	Not reported
Fax Number:	Not reported
Modified By:	msbaptis
Date Last Modified:	2007-02-22

Site Id:	3728
Affiliation Type:	Facility Operator
Company Name:	8 REWE STREET, LLC
Contact Type:	Not reported
Contact Name:	MARJAN SUPPLY CO.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 388-6465
EMail:	Not reported
Fax Number:	Not reported
Modified By:	msbaptis
Date Last Modified:	2007-02-22

Site Id:	3728
Affiliation Type:	Emergency Contact
Company Name:	8 REWE STREET, LLC
Contact Type:	Not reported
Contact Name:	FRANK MISSANO
Address1:	Not reported

8 REWE STREET, LLC (Continued) **U004076426**

Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 388-6465
EMail:	Not reported
Fax Number:	Not reported
Modified By:	msbaptis
Date Last Modified:	2007-02-22

Site Id:	3728
Affiliation Type:	Facility Owner
Company Name:	8 REWE STREET, LLC
Contact Type:	MEMBER
Contact Name:	JAMES BUTLER
Address1:	8 REWE STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 388-6465
EMail:	Not reported
Fax Number:	Not reported
Modified By:	msbaptis
Date Last Modified:	2007-02-22

Tank Info:

Tank Number:	001
Tank ID:	4073
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	7500
Install Date:	06/01/1979
Date Tank Closed:	04/01/2007
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	21
Date Test:	06/08/2004
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
K99 - Spill Prevention - Other
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None

8 REWE STREET, LLC (Continued) **U004076426**

A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
L00 - Piping Leak Detection - None
I04 - Overfill - Product Level Gauge (A/G)

Z171 **NYC DEP HAZ MAT** **NY MOSF** **S102143390**
WSW **200 MORGAN AVENUE** **NY LIENS** **N/A**
1/8-1/4 **BROOKLYN, NY 11201** **NY Spills**
0.237 mi. **NY MANIFEST**
1253 ft. **Site 1 of 3 in cluster Z**

Relative:
Lower

Actual:
10 ft.

MOSF:

Name:	MORGAN OIL TERMINALS CORP.
Address:	200 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Facility ID:	2-1500
Program Type:	MOSF
Tank Status:	Inactive
Expiration Date:	Not reported
Dec Region:	2
UTMX:	590073.27268
UTMY:	4507217.06314

LIENS:

Name:	MORGAN OIL TERMINALS CORP.
Address:	200 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY
Region:	2
Spill No:	92-09135
Tax Map Id:	2942-101, 157, 160, 207, 220
Lien Request Received:	06/17/1996
Request Sent To APA Or Vendor:	07/18/1996
Draft Lien Received From Vendor:	11/19/1996
Approved Lien To Administrator:	Not reported
Signed By Administrator:	Not reported
Received From Administrator:	Not reported
Sent For Filing:	Not reported
Resent For Filing:	Not reported
Proof Of Service Received:	Not reported
Sent To OAG:	11/25/1996
Amount:	$561,620.28
Release Required:	Not reported
Sent To Administrator:	Not reported
Signed By Adminstrator:	Not reported
Received From Adminsitrator:	Not reported
Release Sent To OAG:	Not reported
Complete:	True
Release:	False
Withdrawn:	False

Name:	MORGAN OIL TERMINALS CORP.
Address:	200 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY
Region:	2
Spill No:	92-09135
Tax Map Id:	2942-101, 157, 160, 207, 220

NYC DEP HAZ MAT (Continued) **S102143390**

Lien Request Received:	03/22/1994
Request Sent To APA Or Vendor:	12/05/1994
Draft Lien Received From Vendor:	05/31/1995
Approved Lien To Administrator:	Not reported
Signed By Administrator:	Not reported
Received From Administrator:	Not reported
Sent For Filing:	Not reported
Resent For Filing:	Not reported
Proof Of Service Received:	Not reported
Sent To OAG:	06/05/1995
Amount:	$71,828.17
Release Required:	Not reported
Sent To Administrator:	Not reported
Signed By Adminstrator:	Not reported
Received From Adminsitrator:	Not reported
Release Sent To OAG:	Not reported
Complete:	True
Release:	False
Withdrawn:	False

SPILLS:

Name:	MORGAN OIL CORP
Address:	200 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	8808176 / 1995-08-07
Facility ID:	8808176
Facility Type:	ER
DER Facility ID:	57235
Site ID:	59301
DEC Region:	2
Spill Cause:	Deliberate
Spill Class:	A3
SWIS:	2401
Spill Date:	1989-01-10
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1989-01-13
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Citizen
Cleanup Ceased:	1995-08-07
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1989-01-19
Spill Record Last Update:	2004-04-07
Spiller Name:	Not reported
Spiller Company:	MORGAN OIL COMPANY
Spiller Address:	MORGAN AVENUE
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"OIL DUMPED INTO CREEK WHICH EMPTIES INTO EAST RIVER, USUALLY TAKES PLACE DURING THE NIGHT."

NYC DEP HAZ MAT (Continued) **S102143390**

All Materials:

Site ID:	59301
Operable Unit ID:	924580
Operable Unit:	01
Material ID:	452941
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	100.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	MORGAN OIL CORP.
Address:	200 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9211657 / 2003-11-19
Facility ID:	9211657
Facility Type:	ER
DER Facility ID:	57235
Site ID:	59303
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	A1
SWIS:	2401
Spill Date:	1992-12-23
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1992-12-23
CID:	Not reported
Water Affected:	ENGLISH KILL
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	1993-01-14
Spill Record Last Update:	2012-04-19
Spiller Name:	Not reported
Spiller Company:	MORGAN OIL CORP.
Spiller Address:	200 MORGAN AVENUE
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"4/19/12-Vought-Project manager for PIN project at Morgan Terminal (Open spill 9209135). Located box in file room with notes and reports from DEC Sigona PBS Inspection and Case. This file added to PIN drawer as PBS data may be needed for further cost recovery by NYSOAG if applicable."
Remarks:	"19 WELLS PUT ON SITE 15 WELLS SHOWS CONTAMINATION/REMEDIAL INVESTIGATION REPORT PREPARED BY FENLY AND NICOL. SITE SHOWS FREE PRODUCT MIGRATING OFF-SITE. DEC TO CLEAN/INSPECT MOUNDED TANKS/LEAKS."
	Not reported

NYC DEP HAZ MAT (Continued) **S102143390**

All Materials:

Site ID:	59303
Operable Unit ID:	976105
Operable Unit:	01
Material ID:	405044
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	MORGAN OIL TERMINAL
Address:	200 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9209135 / Not Reported
Facility ID:	9209135
Facility Type:	ER
DER Facility ID:	57235
Site ID:	59302
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	A1
SWIS:	2401
Spill Date:	1992-11-06
Investigator:	HRPATEL
Referred To:	Not reported
Reported to Dept:	1992-11-06
CID:	Not reported
Water Affected:	ENGLISH KILLS
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Federal Government
Cleanup Ceased:	1995-02-28
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	1992-11-10
Spill Record Last Update:	2021-06-30
Spiller Name:	Not reported
Spiller Company:	CITIFUEL INC.
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"after discussing with DEC Austin, case transferred to DEC Patel. the subject spill case was reported by USCG. as per hand written notes from previous project manager, estimated 200-300 gal of material was observed in the English Kills during inspection on 11/06/1992. 04/20/12-Hiralkumar Patel. DEC remarks from 11/06/1992 to 04/19/12 are stored separately in e-docs. DEC Vought forwarded email from DEC Ketani who received email from Bill Hughes from GeoQuest, Inc. dated 02/07/12. Bill mentioned that scaffolding company has left the site and left mess behind. they are currently cleaning up the site. Bill

NYC DEP HAZ MAT (Continued) **S102143390**

Hughes GeoQuest, Inc. Ph. (860) 243-1757 Ext. 103 (860) 402-9592 (C) email: williamhughes01@gmail.com 1:00 PM:- left message for Bill at GeoQuest. 2:00 PM:- visited site with DEC Vought. site contains lots of junk left behind by scaffolding company. no environmental work in progress. found multiple wells (some destroyed and some in bad condition) on and around the property. Vought showed a large aboveground tank in concrete vault along south side of the property. some rainbow and silver sheen (could be mixed of biological and petroleum) observed on water in creek along north of the site. 04/27/12-Hiralkumar Patel. 10:16 AM:- received message from Bill. 11:43 AM:- spoke with Bill. he mentioned that due to access issue with the previous tenant (scaffolding company) for couple of years and large piles of junk left behind after tenant left, no environmental work is in progress at the site. once all the scaffolding junk removed, they are planning to conduct additional soil/gw investigation for additional data. asked him to send summary of work done till now and future plan. also asked him to submit property owner's contact information. 5/8/12-Vought-Vought and Patel held teleconference with NYSOAG Judith Karpen and State will only release lien upon cleanup of site to satisfaction of NYSDEC. Karpen noted that new owner was English Kills and former owner was Corpus Christi and that Corpus Christi declared bankruptcy and as a result State will receive minor settlement amount in lieu of total monies spent. Karpen noted that Corpus Christi may have secured eight million dollar loan for cleanup (as per former OAG Buss) but not sure if monies are being used for cleanup and also not sure whether Corpus Christi or English Kills is supervising cleanup. Karpen will begin file research upon completion of file review by DEC Patel and subsequent call to NYSOAG Karpen. Spill transferred to DEC Patel as per RSE. 05/18/12-Hiralkumar Patel. completed review of available documents and found following: 1) 10/12/2006: Robert Feller from Bond, Schoeneck & King, PLLC sent fax including a singed copy of Agreement for Discharge of Environmental Liens. RCC & York Associates, Inc. signed the agreement. RCC agreed on following terms: - payment of $ 25,000 upon execution of this agreement - upon completion of cleanup of environmental contamination to the satisfaction of NYS DEC, RCC or its assigns, heirs, or successors of interest, shall pay $ 100,000 - upon receipt of the final payment, DEC shall issue a release of its said environmental liens against the said property 2) 05/27/2009: DEC Ketani referred case to legal as no response to the STIP letter (dated 03/18/09). 05/23/12-Hiralkumar Patel. 2:40 PM:- received email from Bill including summary of work done by GeoQuest and disposal manifests for soil removed during removal of eastern tanks (400,000 gal and 200,000 gal). GeoQuest is planning to remove southern tanks (total five tanks). once the tank complex has been removed and extent of the sub-surface structure is known, a proposed plan of action for determining the extent of the subsurface contamination will be submitted. Bill will visit the site on 05/30/12. 05/24/12-Hiralkumar Patel. alternate address: 192-200 Morgan Ave MOSF #: 2-1500. MOSF registration showing tanks still in-service. registration expired on 03/31/1991. other spill #: 8808176, 9105949, 9112693, 9208755 and 9211657 spill # 8808176 was reported on 01/13/1989 as 100 gal #2 oil dumped into creek. case closed on 08/07/1995. no documents on e-docs. spill # 9105949 was reported on 09/03/1991 as #6 oil found in creek which might be coming from a 55 gal abandoned drum or from bulkhead. case closed 09/19/1991. spill # 9112693 was reported on 03/12/1992 as 50 gal #6

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oil spilled. case closed on 03/13/1992. spill # 9208755 was reported on 10/29/1992 as 50 gal #6 oil sludge spilled during tank cleaning operation. spill cleaned up by Citi Fuel. case closed on 02/05/1998. spill # 9211657 was reported on 12/23/1992 by DEC Mitchell due to contamination found in wells as part of PIN job. 05/25/12-Hiarlkumar Patel. 12:43 PM:- spoke with DEC legal regarding case initiation and confirmed no legal action from region 2 office as owner was doing work. 05/30/12-Hiralkumar Patel. 1:30 PM:- visited site. met Bill. found tank removal operation at the site. crew already removed more than 70% of the tank #1 (which is closest to the Morgan Ave - 647,000 gal tank). found about 12 inches thick concrete pad under the tank metal. water found on the side of the tank pad and oil found on water. no petroleum odors noticed. Bill mentioned that tank removal operation begun probably at the beginning of the month. informed him that the department has not received any work plans or notification to MOSF regarding removal of the tanks. after discussing with DEC Austin, asked Bill to stop tank removal work immediately and informed him that work should only be resumed after getting approval from the Department. Bill spoke with property owner and requested a meeting in DEC office. informed Bill that meeting can be scheduled once required work plan/documents submitted to the Department. during visit, met with Jacques Guillet (914-309-4317), contractor who is removing tank metals. informed him about no more work without the department's approval. 2:30 PM:- spoke with Ms. Karpen. she found the Agreement for Discharge of Environmental Liens (dated 10/12/2006) in her file. she will review available documents to see if any consent order or STIP signed for cleanup work. informed her about a meeting requested by RP. she mentioned that she needs to review the entire file and the work plan/documents, that will be submitted by RP, before any meeting with RP. she requested copy of work plan/documents, once submitted. 05/31/12-Hiralkumar Patel. discussed with DEC Austin and DEC Vought. Austin required submission of following documents: - work plan for tanks removal including community air monitoring plan and health and safety plan - submission of MOSF application for tanks closure - copy of NYC DOB's work permit for tanks removal - documentation about notification to FDNY 1:52 PM:- received email from Bill. he mentioned that the site owner has a prospective tenant who would rent part of the space (starting in two weeks), but currently, access to the area being rented is blocked by physical obstacles on the ground. Bill asked if they can move stockpiled soil to other part of the site and remove already cut-up steel off-site. discussed with DEC Austin. Austin approved to move soil and metal to other part of the site, but no off-site disposal without approval of the work plan. 2:25 PM:- spoke with Bill and informed him that the department approves moving of stockpiled soil and cut-up steel to other part of the site, but does not approve off-site disposal of any material until all required documents submitted and approved. asked him to send property owner's contact info. asked Bill about well monitoring. Bill mentioned that wells were lastly checked in 2009 before scaffolding removed. after removing scaffolding, most of the wells are covered under dirt/metal and are not accessible. asked Bill about DOB work permit. he believes that permit is not needed for tank removal. asked him to check with NYC DOB regarding required work permit. 06/01/12-Hiralkumar Patel. 2:01 PM:- received email from Bill including property owner's contact info. English Kills Ventures LLC c/o Asher Zwebner, Trustee 5014 16th Avenue, Suite 110 Brooklyn, NY 11219 6:15 PM:- sent email to Bill and asked to provide owner's phone number and email address.

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06/05/12-Hiralkumar Patel. 11:08 AM:- received email from Bill. he mentioned that property owner asked to send documents to their attorney. Robert H. Feller, Esq. **property owner's attorney** Bond, Schoeneck & King, PLLC. 111 Washington Avenue Albany, NY 12210-2211 Ph. (518) 533-3222 Fax (518) 533-3299 email: rfeller@bsk.com 1:44 PM:- received email from Bill. due to open tank excavation pit, he requested to backfill it using on-site stockpiled soil. 2:33 PM:- forwarded Bill's email to DEC Austin for review. 6/6/12-Vought-DEC Patel received email from GeoQuest (Bill Hughes Ph:860-243-1757 Cell:860-402-5292) that When you closed down the site on Wednesday (5-30-12) you may not have realized that a dangerous condition resulted - an open pit. Granted, the work area is theoretically closed to any and all persons and/or vehicles, but we all know that stuff happens. In addition, the open pit is subject to flooding which could result in a multitude of unforeseeable problems including exacerbating the danger of this site condition.We propose the following solution: 1) Continue the removal of the steel bottom of the tank (at the very least) and store the steel on-site. The next level of action would be to also remove the steel back wall (south wall), remaining steel west wall (only about 30% still remains), and remove the remainder of the north wall (storing all removed steel on-site, of course). 2) Back-fill the open pit with the on-site soil as you and I discussed. The on-site soil is fill removed from the tank top and walls which exhibits no sign of any contamination. The backfilling of this area would eliminate a very dangerous situation. 3) Consider allowing the stored steel to be removed from the site. It could be used to pay for the rental equipment. Steel is steel- it is not a source of contamination. 4) Consider the power of inertia- the longer a project remains stalled, the harder it is to get it moving again. Regards. DEC Patel forwarded email to RSE with request for advisement and RSE forwarded mail to DEC Vought asking to look into matter. Vought called and spoke to Geoquest who noted that tanks bottoms were approximately 5-6'below grade on concrete and close to groundwater. Geoquest also noted that the concrete under the tanks was at groundwater level. Vought after concurring with DEC Farrar called back Geoquest and noted that backfilled soils must meet STARS Memo #1 parameters. Vought also called and spoke to NYCOEM McIntyre who noted that site is not in a NYC Program and as such there are to date no institutional or engineering controls for site but that if applicants are interested in alternate SCOs associated with a different program then they should call NYCOER Chawla. Vought spoke to DEC Patel who noted that when he was onsite last week he also noted to contractor that wells will need to be installed at the tank locations through the concrete. Vought to meet Hughes on site at 1pm today and required that: 1)samples be collected from the soil pile analyzied for Full List 8260/8270 (due to history of chlorinated solvents) 2)note that wells will be required in the future in the backfilled areas 3)Submission of analyticals to DEC for review prior to use as backfill. Vought received callback from Hughes who noted that site was zoned M-1(manufacturing). Vought performed site visit and received call from Hughes who noted that his car broke down in Brooklyn and he will not be able to make it to site but will arrange to have sampling company come to site and collect sam[ple. Vought repeated that sample must be collected for 8260/8270 Full List and compared to STARS Memo#1 values. Vought observed approximately 2O' high by 70' long pile of soil up against large MOSF tank but noted no petroleum odors or staining in pile. Vought also observed standing

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water in open tank pit and water was connected to soil as west wall of UST removed down to tank bottom. No sheen or product in water in tank pit. Bottom of tank pit composed of concrete pad and steel(of which is scheduled to be removed). Vought met English Kills (Arthur Schwartz Ph:732-309-2063) onsite and discussed tank removal and future use of site (which may be parking lot for buses) as well as need for installation of wells at tank location through concrete pad as per DEC Patel. Vought also observed approximately 6' width of soil between steel tank and outer support wall with no staining as well. Note soil pile covering many monitoring wells. Rush turnaround time will be requested for soil samples as well. Vought sent email update to Kumar. 6/7/12-Vought-Received message from Hughes and returned call and left message to return call with confirmation of sample collection. Vought received callback from Hughes who was enroute to site to perform soil sampling of proposed soils for backfill (EPA 8260/8270 Full List) due to former presence of chlorinated solvents as well as petroleum in tank. Results to be compared to STARS Alternative Guidance values and examined for possible Haz Waste contaminants as well. Results should be received and Hughes will follow up with Vought on Friday. 06/12/12-Hiralkumar Patel. 11:58 AM:- received email from Bill including sample results. three samples were collected. some SVOCs found in samples. found maximum 460 ppb of Naphthalene in one sample. Bill requested approval to backfill the excavation. DEC Austin and DEC Vought inspected site. based on observations during the site inspection, Austin mentioned that the department does not approve backfilling of the tank excavation. he asked for a meeting in DEC office, with property owner. 2:36 PM:- spoke with Bill and informed him about the discussion with DEC Austin. asked him to set up meeting with property owner. 4:25 PM:- sent email to Bill. informed him that the department does not approve backfilling of the excavation. informed him that the department requests a meeting with property owner. asked him to provide timing for the meeting. email copied to DEC Vought, DEC Austin, Judy Karpen, Jay Soltis (jsoltis@geoquestinc.com) and Marc Casslar (mcasslar@geoquestinc.com). 06/14/12-Hiralkumar Patel. 11:51 AM:- received email from Bill. he mentioned that him, Marc Casslar (GeoQuest) and Robert Feller (owner's attorney) will meet at 10 AM on 06/20/12, in DEC office. spoke with DEC Austin. he requested presence of property owner. he mentioned that if owner brings his attorney, then DEC attorney will be present in the meeting and it will be an enforcment issue. 2:32 PM:- spoke with Bill and informed him about discussion with DEC Austin. Bill asked to reply by email. 06/18/12-Hiralkumar Patel. discussed with DEC Vouth, DEC Austin and Judith Karpen. Ms. Karpen is still reviewing legal documents. as the legal review is pending, Austin mentioned that the meeting on 06/20/12 will be to discuss technical issues only. 3:31 PM:- sent email to Bill including meeting agenda. informed him that this meeting will be for technical discussion only. email copied to DEC Austin, DEC Vought, Judy Karpen, Jay Soltis and Marc Casslar. 06/20/12-Hiralkumar Patel. 10:00 AM:- discussed with DEC Austin, DEC Vought, Bill, Marc Casslar, Robert Feller and Ryan Karben during meeting in DEC office and agreed upon following: - notification to NYC DOB and FDNY (if applicable) - submission of MOSF application for tanks removal - monitoring of bulkhead during low tide for possible oil seepage into the creek and installation of boom, if product seepage noted - submission of tank removal plan, including health and safety plan and CAMP, by the end of 07/16/12 - subsurface soil and

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groundwater investigation, at and around the tanks location during discussion, Bill mentioned that removal of remaining tanks would take another 6-8 months and subsurface investigation will be peformed after that. informed RP that the department requires delineation under the tank pads, via installation of wells through the pads. also, the department may require replacement of wells, if existing wells are destroyed or clogged. during discussion, Austin approved to use on-site stockpiled soil to backfill the tank excavation and RP agreed that depends on future site use, backfilled soil may be removed during future development. asked RP to submit MOSF application for tanks removal. Ryan Scott Karben, Esq. **owner's representative** Law Office of Ryan Scott Karben 11 Tara Drive Pomona, NY 10970 Ph. (914) 536-4402 email: ryan@ryankarben.com 1:01 PM:- spoke with Judy. she mentioned that due to statue of limitation, she can not enforce for money spent more than 6 years ago. also, there is no dicussion about spill remediation in the Agreement for Discharge of Environmental Liens signed by RCC & York Associates, Inc. in 2006. she also mentioned that bankruptcy court has found environmental liens be not valid. 06/29/12-Hiralkumar Patel. 3:50 PM:- spoke with Bill and informed him that a STIP agreement will be mailed today. 4:06 PM:- sent STIP letter to Mr. Feller. informed him that the signed STIP and a tank removal plan (including schedule) must be submitted by the end of 07/27/12. letter emailed to Mr. Feller, DEC Austin, DEC Urda, Ms. Karpen, Bill, Mr. Casslar and Mr. Karben. 07/05/12-Hiralkumar Patel. 12:14 PM:- received email from Bill including MOSF notification, tank removal plan and health & safety plan (including CAMP). 1:02 PM:- sent email to Bill. informed him that a signed stipulation must be submitted to the Department prior to review of any work plans. email copied to DEC Austin, DEC Urda, Ms. Karpen, Mr. Fellller, Mr. Casslar and Mr. Karben. 07/12/12-Hiralkumar Patel. received email from Mr. Casslar (at 6:11 PM on 07/11/12) including revised STIP and CAP. Mr. Casslar noted following nine reasons for changes in STIP and CAP: - the spill occurred in 1992, more than 20 years ago - the oil terminal has been closed for almost 20 years - all of the tanks were emptied, cleaned, and inspected more than 18 years ago - active remediation of groundwater was conducted for about 8 years - NYSDEC concluded almost 8 years ago that no further benefit could be achieved from active groundwater remediation - all of the work was conducted under the supervision of the NYSDEC - no new spills have occurred since the facility was closed - the site has been used and occupied at various times in the last 20 years and there is no indication that a risk to human health or safety exists; and - throughout time the importance of removing the tanks has been continuously discussed 07/18/12-Hiralkumar Patel. discussed with DEC Austin, DEC Vought, DEC Urda and Ms. Karpen. Ms. Karpen will discuss with Patrick Hallaway in AG's office to discuss about third party claim to the spill fund by the property owner. discussed submitted revised CAP and changed as needed. Urda will revised the CAP after gets update from Ms. Karpen. 07/31/12-Hiralkumar Patel. visited site. found water in tank excavation area. some sheen observed on water. 3:23 PM:- received email from Ms. Karpen inquiring if English Kills had a Phase I done prior to purchasing the property. 08/01/12-Hiralkumar Patel. 4:43 PM:- sent email to Ms. Karpen. informed her that the department does not have any Phase I report in file and doesn't know if English Kills ever conducted Phase I investigation. 08/03/12-Hiralkumar Patel. received call from DEC Urda. he will arrange a conference call with

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AG's office and spill fund. 08/07/12-Hiralkumar Patel. yesterday (08/06/12), DEC Austin, DEC Vought, DEC Urda, DEC Ben Conlon, Ms. Karpen (AG's office), Bonnie Riggi (AG's office), Luzette Baker (spill fund) and Patrick Halloway (spill fund) discussed the case and decided to send a consent order. spoke with DEC Urda. he has asked DEC Leszek to review available MOSF documents and waiting for his response before drafting response to the revised STIP sent by RP. 3:48 PM:- spoke with DEC Ian Beilby who inquired about spill # 1202045, which was reported by BCP contractor as they noticed some sheen in water near the site. informed Ian that no sheen observed during the site visit on 05/31/12 and based on site observation, case 1202045 is closed. during conversation, Ian mentioned that they have meeting with EPA on 08/09/12 regarding Newtown Creek cleanup project and will discuss about possible impact to the creek from the Morgan Terminal. asked Ian to update after meeting. 08/13/12-Hiralkumar Patel. 3:33 PM:- received call from DEC Beilby. he mentioned that EPA and respondent's consultant (Anchor QEA) are considering sending a letter (104E request) to English Kills Ventures LLC requiring to submit all investigation/compliance documents for review. 08/14/12-Hiralkumar Patel. 2:47 PM:- received email from DEC Beilby. he will send CD of available documents to AnchorQEA. 08/14/12-Ian Beilby CD with edoc files sent to AnchorQEA for review and possible 104e request. 08/16/12-Hiralkumar Patel. 12:38 PM:- received email from DEC Michele Albert including copy of cover letter that was sent to Anchor QEA (with document CD). 09/06/12-Hiralkumar Patel. reviewed tank removal plan, submitted previously on 07/05/12. abstract of tank removal plan: - fill material removed from the top and sides of the tank will be assigned to one of two piles - if soil appears normal with no dark stains or odor it will be placed onto a clean pile - if soil has dark stains or odor or if it registers on a PID meter it will be placed onto a dirty pile and be stored on and under plastic for sampling, laboratory analysis and eventually off-site disposal - when half of the bottom plate has been removed, the excavation resulting from the tank removal will be partially backfilled to allow the excavator to move into the tnak area to reach the remainder of the bottom plate and the tank back wall - upon completion of the removal of each tank section, the excavation for that tank section will be backfilled and compacted to grade - use of previously excavated clean fill from the on-site clean pile is done with the understanding that in the future, this fill may have to be sampled and/or remediated the tank removal plan does not discuss about endpoint sampling. 10/23/12-Hiralkumar Patel. received email from DEC Urda (at 10:39 AM on 10/17/12) including copy of email from Mr. Feller. Mr. Feller sent signed copy of the consent order. as per the Corrective Action Plan of the Consent Order, the Department must be notified two days prior to backfilling of any part of the excavation and the Department may require collection of endpoint soil and groundwater samples. waiting for copy of fully executed Consent Order. 11/13/12-Hiralkumar Patel. 11:46 AM:- received email from DEC Urda including fully-executed order. 11/29/12-Hiralkumar Patel. 4:07 PM:- spoke with Bill. they started work about 2-3 days ago. 12/05/12-Hiralkumar Patel. 2:55 PM:- visited site. crew was working in tank pit, cutting angle brackets to the south wall of tank. no structural supports were observed to the south wall. also noted that the tank pit was partially backfilled, without prior notification to the department as required in signed consent order. 3:25 PM:- left message for Bill and asked him to ensure worker's safety. 3:50 PM:-

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sent email to Bill regarding operation at the site. asked him to ensure safe operation. email copied to DEC Urda and Mr. Feller. 12/06/12-Hiralkumar Patel. 11:08 AM:- received email from Bill. he has spoke with Jacques and was informed that there is still a piece of the bottom plate attached to the south wall as well as the eastern end wall and the angle brackets are for tank stiffness, and are not for structural integrity. 2:16 PM:- spoke with Bill regarding partial backfilling of excavation without prior notice to the department. he mentioned that the excavation was partially backfilled so a backhoe can be used for further work. he mentioned that soil in tank excavation pit will be tested as part of investigation after tank removal and removed, if found contaminated. 12/10/12-Hiralkumar Patel. received email from Bill (at 4:18 PM on 12/09/12). he mentioned that when remedial investigation work plan is submitted, the soil in the area occupied by the tanks will be addressed along with the soils on the remainder of the property. 01/22/13-Hiralkumar Patel. 9:00 AM:- visited site. first section of the tank is removed completely and area has been backfilled to grade. no crew was on-site. 03/20/13-Hiralkumar Patel. 10:45 AM:- visited site. crew was removing the tank. the site is divided in two sections: section towards Morgan Ave is occupied by buses and section towards the water is occupied by construction equipments. 05/04/13-Hiralkumar Patel. another spill reported at the site (spill #: 1301162) by FDNY as fire occurred in tank pit during tank removal. 1:30 PM:- visited site. FDNY had left. met with Jacques Guillet, site supervisor. he mentioned that due to very hot weather, some of the left over oil got vaporized and flash fire occurred. FDNY extinguished the fire and stopped work until they get fitness certificate. FDNY issued violation order (# A181083). Mr. Guillet mentioned that work will resume only after necessary documents submitted to FDNY. inspected tank pit. only eastern section of last tank left. found burned steel in tank pit. no odors noted. as per Mr. Guillet, no one was injured. 05/06/13-Hiralkumar Patel. 9:17 AM:- DEC Urda forwarded email from Mr. Feller (dated 05/02/13). Mr. Feller mentioned that tank removal report will be submitted by 05/31/13, as approved by DEC. 05/24/13-Hiralkumar Patel. 11:03 AM:- received call from Bill. he inquired about document from previous contractors regarding cleaning of tanks. 11:10 AM:- sent email to Bill including copy of report from Winston Contracting dated 02/25/1995. 05/31/13-Hiralkumar Patel. 10:42 AM:- received email from Bill including tank removal report. abstract: - two tanks (# 6 and 7) in eastern tank complex - five tanks (# 1 through 5) in southern tank complex - tanks were fabricated on the site from individual steel plates with welded seams - tank structures were supported with internal steel angle brackets welded into a rigid pattern - soil was placed on the exterior of the tanks to create bunders , and appeared to consist of the same fill-type materials underlying the property - both the eastern (with two tanks # 6 and 7) and southern (with five tanks # 1 through 5) tank complexes were constructed approx. 4 ft bg - on-site soil, including bunkering material, was utilized to backfill the excavations - during the remvoal of the tank bottom plates, small quantities of free product were occasionally observed on groundwater - when encountered, the oil was collected using oil absorbent material - total of 835.84 tons of soil, from removal of eastern tanks, transported in Mar. 2012 - total of 1,696.63 tons of soil, from removal of southern tanks, transported in Aug. 2012 2:18 PM:- tank removal report forwarded to Ms. Karpen. 2:22 PM:- sent email to

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Bill and asked to submit remedial investigation work plan and tank registration forms as per item # 5 and 6 of the correction action plan of the signed consent order. email copied to DEC Urda, Ms. Karpen, Mr. Casslar, Mr. Feller and Mr. Karben. 05/31/13-Hiralkumar Patel. 2:57 PM:- received email from Bill. he inquired if tank removal report is accepted. he mentioned that investigation work plan will be submitted within 30 days of acceptance of the tank removal report. he also mentioned that required tank registration forms will be submitted upon approval of the remedial investigation work plan. 06/04/13-Hiralkumar Patel. discussed with DEC Leszek regarding submission of MOSF/PBS forms. he mentioned that required tank registration forms should be submitted now to correct the tank status. 06/05/13-Hiralkumar Patel. 3:02 PM:- sent email to Bill. informed him that the tank removal report is accepted. informed him that as per the signed consent order, a remedial investigation work plan is due within 30 days of submission of the tank removal report. asked him to submit the work plan on or before June 30, 2013. also asked him to submit required tank registration forms now instead of waiting for work plan approval. email copied to DEC Urda, Ms. Karpen, Mr. Casslar, Mr. Feller and Mr. Karben. 06/20/13-Hiralkumar Patel. 11:41 AM:- received email from Bill including PBS/MOSF applications. 06/25/13-Hiralkumar Patel. discussed with DEC Leszek about PBS/MOSF forms. he mentioned that hard copy must be submitted with original signature. 12:56 PM:- sent email to Bill and asked him to submit hard copy of required PBS/MOSF forms with original signature. 06/28/13-Hiralkumar Patel. received signed hard copy of PBS/MOSF forms. gave forms to DEC Leszek for review and processing. 07/01/13-Hiralkumar Patel. received email from Marc Casslar from GeoQuest including Remedial Investigation Work Plan. abstract: - total of 12 soil borings wil be advanced to the base concrete slab of the former southern tank complex - for the eastern tank complex, a total of 8 soil borings will be advanced to the base concrete slab - 2 of the borings in each complex will be advanced through the slab to a total depth of 12 ft bg - soil with the highest PID readings or the most visual or olfactory contamination will be collected for lab analysis - soil samples will be analyzed for DRO, VOCs by 8260B and PAHs by 8270 - five (5) additional borings will be developed as 1 inch monitoring wells, with 5 ft of screen and sufficient riser, in the vicinity of the former tanks - work can commence within 90 to 120 days after the acceptance of this work plan - report should be completed within 180 days after commencement work the proposed work plan is not acceptable for following reasons: - it proposes to begin work within 90 to 120 days after the acceptance of the work plan. the department requires that investigation work must begin within 45 days of work plan approval - it propose to submit report within 180 days after commencement of work. the department requires that Remedial Investigation Report must be submitted within 120 days of work plan - a scaled site map must be submitted including all previous boring/well locations and location of proposed borings/wells - it proposes installation of 1 inch well with 5 ft screen. work plan does not specify minimum depth of proposed wells. the proposed wells must be at least 2 inch in diameter and must be installed to minimum depth of 12 ft bg with 10 ft of screen - all existing monitoring wells must be gauged and sampled 10:26 AM:- spoke with Marc at GeoQuest. asked him to submit revised work plan with following changes: - investigation work must begin within 45 days of department’s approval (instead of within 90 to 120 days) - Remedial Investigation Report

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must be submitted within 120 days of department's approval (instead of 180 days after commencement of work) - revised scaled site map including all previous boring/well locations, alongwith location of proposed borings/wells - wells must be at least 2 inch in diameter and must be installed to minimum depth of 12 ft bg with 10 ft of screen - gauging/sampling of all existing monitoring wells Marc mentioned that site access may be issue for field work. informed him that the site is being used as parking lot, occupied by buses which can be moved for field work. Marc mentioned that Bill is out of office till next week and will submit revised work plan upon his arrival. 3:40 PM:- received message from Sam Levin, attorney for property owner. Sam Levin Ph. (347) 564-3597 07/02/13-Hiralkumar Patel. 1:16 PM:- spoke with Mr. Levin. he inquired about insurance carrier of previous property owners. informed him that no such information seen in file. suggested him to review available files. he will talk to Bill. 07/19/13-Hiralkumar Patel. 4:12 PM:- received email from Bill including work plan, with changes in work schedule only. but no changes about well diameter or depth. 08/02/13-Hiralkumar Patel. Bill proposed to install total 20 soil borings to the base concrete slab in former two tank fields, but soil above concrete bases are basically on-site backfill soil which was removed from around the tanks during tank removal. as such there is no need to sample this soil again. instead deeper and larger diameter monitoring wells are needed at the source area. 1:26 PM:- spoke with Bill. informed him that the department requires minimum 4-inch wells at former tank locations, to a minimum depth of 12 ft bg with 10 ft of screen. asked him to submit revised work plan. Bill asked to send email with comments on work plan. 08/06/13-Hiralkumar Patel. discussed with DEC Vought. as stated in signed consent order, complete delineation (on- and off-site) is required. 11:12 AM:- spoke with Bill. informed him that the department requires complete delineation of contamination, which includes impact to off-site also. asked him to submit revised work plan including off-site delineation. strongly suggested him to locate previous monitoring wells and sample existing wells prior to finalizing the work plan. Bill asked for written note about the requirements. 1:52 PM:- sent email to Bill. informed him that as per the signed consent order, the department requires complete delineation of contamination. asked him to submit a revised RIWP, by the end of 09/13/13, including on- and off-site delineation. suggested him to locate and sample existing wells prior to finalizing the RIWP. email copied to DEC Urda, Mr. Feller, Jay Soltis (jsoltis@geoquestinc.com) and ekvllc@gmail.com. 08/20/13-Hiralkumar Patel. 4:35 PM:- received message from Bill. 08/21/13-Hiralkumar Patel. 12:42 PM:- left message for Bill. 08/22/13-Hiralkumar Patel. 11:29 AM:- received message from Bill. 08/26/13-Hiralkumar Patel. 12:52 PM:- spoke with Bill. he inquired about reason for 4 inch well. informed him that 4 inch wells are preferred in case product recovery or other remediation needed. he mentioned that as there was not much oil found on concrete pad during tanks removal, property owner wants to install 2 inch well. informed him that its ok to install 2 inch well now, but the department may require to install larger diameter well based on investigation results. he agreed to it. Bill will submit work plan by first week of Sept. 2013. 09/13/13-Hiralkumar Patel. 2:05 PM:- received email from DEC Beilby. he mentioned that EPA will visit site on 09/18/13 to determine whether there are any likely on-site point source discharges to Newtown Creek. 10/03/13-Hiralkumar Patel. 12:19 PM:-

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received email from DEC Beilby. Anchor QEA indicated that the morgan oil terminal would not likely be targeted for sampling because of a lack of discharge. 10/29/13-Hiralkumar Patel. received email from Bill (at 2:02 PM on 10/28/13) including a revised work plan. Bill proposes to install total of twenty (20) soil borings to the base concrete slab of the former tank complexes. two borings will be advanced to 12 ft bg. three (3) 2-inch wells will be installed to 15 ft depth, with 10 ft of screen. Bill also proposes to sample seven (7) existing wells. the submitted work plan does not include information about number of wells available at the site and it only proposes to investigate soils and groundwater in the footprint and vicinity of the former tank complexes. 11/14/13-Hiralkumar Patel. 2:55 PM:- spoke with Bill. discussed about existing wells and complete delineation. Bill mentioned that they found total 12 wells. out of 12 wells, product found in 5 of the existing wells. asked Bill to submit a revised work plan including site map with location of all existing wells and information about product in existing wells. informed him that further delineation may be requuired, based on investigation results. 3:17 PM:- sent email to Bill and asked to submit a revised work plan. 11/26/13-Hiralkumar Patel. received email from Bill (at 4:14 PM on 11/20/13) including work plan with revised site map including location of wells where free product found. 12/20/13-Hiralkumar Patel. 11:30 AM:- sent letter to property owner approving work plan, pending inclusion of immediate gauging of wells to determine product thickness, installation of absorbent socks in impacted wells and weekly monitoring/removal of product from wells. asked owner to submit monthly records of well gauging/product removal activities and investigation report by the end of 06/30/2014. letter emailed to Bill, DEC Urda and Mr. Feller. 01/08/14-Hiralkumar Patel. DEC Peter Malaty (Fish, Wildlife and Marine Resources) visited site earlier today to inspect bulkhead at the site. during inspection, he noted spill of unknown amount of motor fuel onto the soil, from one of the parked bus at the site. he sent pictures taken during the site visit. 11:28 AM:- left message for Bill and informed him about unreported spill, from a bus, at the site. asked him to call back with bus company's information. informed him that the department requires reporting of this spill incident and cleanup of spilled material. 11:36 AM:- sent email to Bill including pictures received from DEC Peter. informed Bill that the department requires reporting of this spill incident and immediate cleanup. also asked him to provide bus company's information. 01/10/14-Hiralkumar Patel. 12:28 PM:- received call from Bill. discussed about unreported spill under the parked bus. he will ask bus owner/operator to report the spill. Bill mentioned that spill was cleaned up. spoke with Bill about installation of absorbent socks in well and removing product. he mentioned that no work has been done yet and they believe that installing absorbent socks in wells would not do any benefit. asked Bill to submit written reply to the requirement of well gauging/product removal as listed in letter dated 12/20/13. 03/10/14-Hiralkumar Patel. 10:43 AM:- received email from Bill including addendum to remedial investigation work plan dated 10/18/13. Bill proposed to install an appropriate absorbent sock , as soon as practical, into each of the contaminated wells and weekly checking and repalcement of these socks. specific work schedule is missing in the addendum. 04/23/14-Hiralkumar Patel. 1:33 PM:- left message for Bill. 06/02/14-Hiralkumar Patel. 4:48 PM:- received email from Bill including a letter including summary of interim remedial

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measures. on 05/14/14, GeoQuest gauged wells previously reported to contain LNAPL (MW-14, MW-15, MW-28A, MW-34 and MW-40) and installed absorbent socks. they visited site again on 05/21/14 and replaced the absorbent socks. found product in all five wells during both visits. product thickness (in ft): ---------05/14/14-----05/21/14 MW-14------0.90---------0.72 MW-15-----0.001--------0.001 MW-28A----0.001--------0.001 MW-34------6.20---------0.01 MW-40------1.50---------0.45 absorbent sock weight difference (in oz) on 05/21/14: ---------weight diff. MW-14------25.8 MW-15-------3.0 MW-28A------1.1 MW-34------11.0 MW-40------47.7 06/23/14-Hiralkumar Patel. 3:44 PM:- received email from Bill including a letter including summary of interim remedial measures. on 06/11/14, GeoQuest gauged wells with the installed absorbent socks. a previously obstructed well (MW-12) has been available and installed absorbent sock in it. previously reported to contain LNAPL (MW-14, MW-15, MW-28A, MW-34 and MW-40) and installed absorbent socks. they visited site again on 05/21/14 and replaced the absorbent socks. found product in all five wells during both visits. product thickness (in ft): ---------06/11/14 MW-12------0.001 MW-14------0.001 MW-15------0.001 MW-34------0.001 MW-40------0.001 absorbent sock weight difference (in oz) on 06/11/14: ---------weight diff. MW-14------35.6 MW-15-------5.1 MW-28A------2.0 MW-34-------4.2 MW-40------42.5 10/28/14-Hiralkumar Patel. 11:24 AM:- received email from Bill including remedial investigation report. abstract: - on 06/09/14, installed 20 soil borings in the area under and around the former bulk storage tanks - twelve (12) soil borings (B-1 through B-12) were advanced to a depth of 5 ft within the footprint of the former southern tank complex, six (6) soil borings (E-1 through E-6) were advanced to a depth of five ft within the footprint of the former eastern tank complex, and two borings (B-13 and B-14) were advanced to a depth of 15 ft bg along the north side of the southern tank complex - ten soil samples were submitted for lab analysis - on 06/10/14, three (3) 2-inch monitoring wells, with ten (10) ft of screen, were installed to a depth of fifteen (15) ft bg - total of ten monitoring wells were sampled for analysis: seven existing wells (FN-19, FN-20, FN-22, FN-28A, FN-31, FN-35 and FN-39) and three new wells (GQ-41, GQ-42 and GQ-43) - boring logs shows the predominant material encountered in the footprint of each tank complex was: brown, dark brown or black sand with silt or sand, silt, and clay, with a variety of crushed materials: asphalt, brick, pieces of concrete, stone, coal, plus ceraimc, glass, metal, wood and paper - groundwater was encountered at 3.5 ft bg in boring B-13 and B-14 - direction of groundwater flow across the site ‘would be expected’ to be predominantly west to east and from south to north ---------- - the exception is on the southern side of the former Southern tank complex where it is believed that the 17 ft high bunkering wall filled with permeable fill, has influenced the local flow direction, forcing a reported southeasterly flow direction ---------- - very minor VOCs detection noted in few samples - SVOCs were detected in all soil samples (backfill material found in soil borings) - using absorbent socks in wells with product, a total of 1.5 gal of product has been removed to-date - there are at least two USTs still on-site including a 3,000 to 5,000 gal UST in a vault in the northwest corner of the site and a 1,000 gal heating oil tank on the south side of the terminal buiding - recommends removal of remaining tanks and continuation of interim-remedial measures (product recovery using absorbent socks in wells with product) the

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report is missing site map with location of existing tanks and well FN-28A. 11/04/14-Hiralkumar Patel. 8:57 AM:- sent email to Bill. asked him to submit site map with location of existing tanks and well FN-28A. also asked him to submit records of interim remedial measures as per the department's letter dated 12/20/13 (copy attached in email). email copied to Aaron Abraham (aarbenabe@yahoo.com), Marc Casslar (mcasslar@geoquestinc.com), Jay Soltis (jsoltis@geoquestinc.com) and lepmanagement89@gmail.com. 11/06/14-Hiralkumar Patel. 2:14 PM:- received email from Bill including site map with location of existing tanks and well FN-28A. Bill mentioned that location of FN-28/FN-28A is uncertain. according to well location maps available to GeoQuest, there should be two wells close together off of the eastern end of the office buildiing, labeled FN-28 and FN-28A, but when GeoQuest did the well usability survey in September 2013 they could only locate one well. Bill will refer this well from now on as FN-28A. 11/10/14-Hrialkumar Patel. 9:15 AM:- received email from Bill including well monitoring data table, which was previously submitted in June. 10:22 AM:- sent email to Bill and asked him to submit interim remedial measure record from June to Nov. email copied to lepmanagement89@gmail.com, Mr. Abraham, Mr. Casslar, Mr. Soltis. 12/24/14-Hiralkumar Patel. 12:08 PM:- received email from Bill: My apologies, there have been no sock exchanges since our last report. We initiated the Interim Remedial Measures (IRM) and made our first report, but, while the initial levels were high, the levels dropped quickly to near zero floating product and we wanted to wait a bit to see if the levels would rebound and by how much. We just completed another round and it appears that the levels, for the most part, have remained low except for one well- FN-40, which still shows some floating product. We were unable to access FN-34 for this round of sampling. absorbent sock weight difference (in oz) on 11/11/14: ---------weight diff. MW-12-------7.5 MW-14------38.5 MW-15------29.0 MW-28A------8.8 MW-40------54.8 01/21/15-Hiralkumar Patel. 8:57 AM:- left message for Bill inquiring update about recommended tank removal. 01/28/15-Hiralkumar Patel. 3:03 PM:- received call from Bill. asked him about status on recommended tank removal. he mentioned that they are waiting for approval from DEC on investigation report. he also mentioned that owner is planning to use the site as it is and there is no redevelopment plan at this time. 07/10/15-Hiralkumar Patel. received email from Paul McGaha (at 6:02 PM on 06/22/15) from McGaha Consulting including well gauging record. Mr. McGaha was recently contracted to assist with project. he inspected site on 06/12/15 and gauged seven existing wells (MW-12, MW-14, MW-15, MW-28A, MW-34, MW-39 and MW-40). 2.35 ft of floating product was noted in well MW-15. absorbent socks with weight difference were found in wells MW-12, MW-28A and MW-40. Paul McGaha McGaha Consulting, Inc. Ph. (908) 285-1207 Fax (888) 680-2762 email: paul.mcgaha@mcgahaconsulting.com Mr. McGaha mentioned that responsible parties will be initiating a remedial action at the property upon approval of the remedial investigation report (dated Sep. 2014 and submitted on 10/28/14). in that report, GeoQuest recommended removal of two USTs and continuation of interim remedial measure program. 09/02/15-Hiralkumar Patel. 1:39 PM:- spoke with Mr. McGaha. informed him that property owner has failed to comply with a requirement of weekly well gauging and monthly submission of well gauging report. Mr. McGaha recommended use of a more active remedial method instead of absorbent socks. asked him to submit a written plan

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for review. 2:38 PM:- sent email to Mr. McGaha and asked to submit written plan for alternative remedial method. email copied to LEP Management (lepmanagement89@gmail.com). 12/11/15-Hiralkumar Patel. a new spill report (# 1509305) received from a member of Newton Creek Alliance. spill report was filed due to oil slick and heavy sheen noted in creek adjacent to the subject site. 3:35 PM:- spoke with Mr. McGaha. he mentioned that this afternoon, he was informed about sheen along side of the property but doesn't think it came from the site. they will install absorbent booms in the creek. 4:10 PM:- inspected site. no sheen noted on water in the creek. 4:36 PM:- spoke with Mr. McGaha. informed him about observations during the site visit. he mentioned that booms will be installed this weekend. 12/14/15-Hiralkumar Patel. 7:52 AM:- left message for Mr. McGaha. 11:15 AM:- received email from Mr. McGaha including some pics. he mentioned that booms were deployed early Saturday morning. residual sheen was present on the water, therefore, the booms were allowed to cross the waterway closer to the boats docked in the inlet, and pulled back to their current position to collect the floating material causing the sheen. a security camera has been focused on the area to monitor the conditions. Mr. McGaha submitted pics from security camera. pics taken on 12/12/15 at 9:13 am, 10:27 am, 11:45 am, 12:02 pm, 1:03 pm, 2:10 pm, 3:15 pm, and 4:35 pm. Paul mentioned that the condition will continue to be monitored and the boom will not be removed until the condition is no longer present. pics show sheen on water. 11:23 AM:- received email from Mr. McGaha including interim remedial measure report. abstract: - report included well gauging data since May 2014 - since May 2014, wells FN-12, FN-14, FN-15, FN-28A and FN-40 were gauged on 05/14/14, 05/21/14, 06/11/14, 12/11/14, 06/12/15 and 09/21/15 - well FN-39 was also gauged during 06/12/15 and 09/21/15 events - absorbent socks have been used to collect LNAPL in wells exhibiting floating product - based on available data, groundwater elevations fluctuate between 1.32 ft above mean sea level at FN-12 in Dec. 2014 to 8.88 ft above mean sea level at FN-34 in May 2014 - total of 3.38 gal of oil have been collected using the absorbent socks since May 2014 - weight of oil was converted to gallons using the specific gravity of #6 fuel oil - site has acquired equipment capable of pumping LNAPL from the groundwater table during liquid product recovery events - based on product recovery amount, Morgan Terminal requests that the frequency of petroleum pumping and absorbent sock removal and replacement be modified to biweekly events. Morgan Terminal also requests that the reporting frequency and submission of Interim Remedial Measures Progress Reports be modified to quarterly reporting product thickness (in ft) in wells:
----------FN-12-----FN-14-----FN-15-----FN-28A-----FN-34-----FN-4
0
05/14/14----------0.90----------6.20------1.
50
05/21/14----------0.72----------0.
45
12/11/14--------1.32------0.02------2.50-------7.00----------0.
40 06/12/15----------2.35
09/21/15--------4.60------0.10------0.20-------0.04------0.23------0.
06 12/15/15-Hiralkumar Patel. received email from Willis (at 4:28 PM on 12/14/15) from Newtown Creek Alliance including pics of the creek showing sheen. Willis went to the site and met property owner and manager. Willis mentioned that property owner, Arthur, made strong

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claims that no product was migrating off his property and likely someone spilled a quart of oil into the water. 8:30 AM:- after discussing with DEC Austin last night, visited site this morning during high tide. minor non-recoverable sheen noted on water in the creek. based on observations during the site visit, it looks like the site has been divided into following four sections: - eastern end of the property (the former eastern tank complex) has been separated from the rest of the site using chain-linked fence. there are sheds on the eastern most part of the site, along the water so could not inspect waterbody from the land - the former southern tank complex area is now occupied by a lumber yard - the remaining area of the site between the creek and the former tank complex (southern tank complex) is used as a parking lot occupied by a private bus company - the northwest corner of the site (former maintenance building), immediately west of the end of the creek, is used as parking lot also noted repaved parking lot around the former maintenance building and a wooden deck along the bulkhead, on east of the former maintenance building. as per available site maps, few monitoring wells were installed around the former maintenance building, including well FN-46 which is along the bulkhead and closest to the point where sheen noted on creek recently. during site visit, there were some vehicles parked on-site and could not see any of the formerly installed monitoring wells around former maintenance building in remaining open area. 9:36 AM:- spoke with Mr. McGaha inquiring about well gauging data. he mentioned that property owner has hired someone who gauge and remove product from the monitoring wells and Paul has prepared report based on data received from property owner. asked Mr. McGaha to send email confirming this activity and including contact information for the person who is gauging wells and removing product. also asked him to schedule gauging of all monitoring wells in presence of DEC personnel. informed him that this may require moving parked vehicles. 2:02 PM:- sent email to Mr. McGaha and asked him to submit - an email (or a letter) confirming his involvement in the project (active field duties vs report preparation/submission based on information collected/submitted by others) - contact name and number for the person/contractor who is gauging on-site wells and recovering product - photographs from the security camera at every hour beginning at 5 PM on 12/12/2015 email copied to DEC Austin, DEC DeMeo, DEC Urda, LEP Management (lepmanagement89@gmail.com) and Arthur Schwartz (aschwartzesq@optonline.net). reviewed NYC ACRIS record and noted that the site has been sold to new property owner in Mar. 2014. Greenpoint Bushwick LLC. **current property owner** 675 3rd Avenue, 8th Floor New York, NY 10017 2:55 PM:- sent email to Mr. McGaha and asked to submit property owner/manager's contact information. email copied to LEP Management and Arthur Schwartz. 3:02 PM:- spoke with Aaron Cohen, property's leasing manager. he is aware of the issue in the creek. he mentioned that property owner (represented by Robert Feller) is planning to conduct further investigation in this matter. he also mentioned that a local contractor (Newtown Williamsburg) was gauging the wells and recovering product. asked Mr. Cohen to schedule a field work for well gauging and product recovery, in presence of DEC personnel. he agreed to it and will ask Mr. McGaha/well gauging technician to schedule this work, in this week. Mr. Cohen mentioned that project managers from DEC Permit unit were on-site recently regarding bulkhead permit issue. Aaron Cohen **property's leasing manager** LEP Management Ph. (347) 901-9045 email: lepmanagement89@gmail.com 3:36 PM:- received

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email from Mr. McGaha. he mentioned that McGaha Consulting, Inc. has provided consulting services for the property including a site visit to demonstrate the operation of the interface meter and well gauging procedures to the previous on-site technician responsible for collection of well gauging data and just last week a second visit to demonstrate the operation of the interface meter and well gauging procedures to the site's new on-site technician. Mr. McGaha has made recommendations for the improvement of well gauging techniques and have prepared a proposal to deliver a mobile pumping system to remove free product from the wells containing free product using a double diaphragm pump. Mr. McGaha was also requested to prepare a standard Interim Remedial Measures Report submission containing well gauging data that is collected and provided by the property's on-site technician, which was recently provided by email. Mr. McGaha mentioned that the on-site technician responsible for well gauging is Mr. Issac Gut. Isaac Gut **on-site technician for well gauging** Ph. (914) 319-1104 (347) 771-7927 email: gut.isaac@gmail.com 3:38 PM:- received email from Mr. McGaha including photographs from on-site security camera. 3:55 PM:- spoke with Sandra Reyes-Guerra (Regional Environmental Permit). she and Justin Falls (DEC Habitat Protection) were on-site as part of bulkhead repair permit application. Sandra doesn't recall noticing any sheen on water. 12/16/15-Hiralkumar Patel. received email from Mr. McGaha (at 9:58 PM on 12/15/15) confirming field work on 12/18/15. 8:00 AM:- visited site. inspected western end of the creek, along the bulkhead east of the former maintenance building. noted some sheen on water. 8:51 AM:- sent email to Mr. McGaha. informed him about a wooden deck in the area of monitoring well FN-46 which is along the bulkhead and closest to the point where sheen noted in creek recently. asked him to have this deck lifted, if possible, for access during field work on 12/18/15. informed him that a new well may be needed in this area, if accessing existing well is not possible. 12/17/15-Hiralkumar Patel. 8:00 AM:- visited site. found sheen on water near the bulkhead at the end of the creek. re-inspected area around the former maintenance building. found formerly installed monitoring well FN-34. some part of the parking lot has been repaved. reviewed NYC ACRIS record and google maps and noted following: - the former Morgan Terminal site occupied lots 101, 207, 220, 160 and 157 on block 2942 - the creek is divided in two sections: north and south and both sections are part of private property - the northern half section of the creek is part of lot # 105 - the southern half section of the creek is subdivided. the eastern portion of the subdivided creek is actually lot # 157 and the western portion of the subdivided creek is part of lot # 101 - all five morgan terminal lots (101, 207, 220, 160 and 157) were owned by Corpus Christi Resources, LLC. from 10/2007 to 12/2008 - all five morgan terminal lots were owned by English Kills Ventures, LLC. from 12/2008 to 04/2014 - in Apr. 2014, former morgan terminal lots were sold to different entities: * lot 101 to Greenpoint Bushwick LLC. * lot 207 to Bushwick Star Management LLC. * lot 157 to 192 Morgan Realty LLC. * lots 220 and 160 to Morgan Williamburg LLC. owners for all five lots have same address: 675 3rd Avenue, 8th Floor New York, NY 10017 12/18/15-Hiralkumar Patel. 11:30 AM:- visited site. met Steve (McGaha Consulting) and Isaac (owner's representative) and gauged wells FN-12, FN-14, FN-15A, FN-22, FN-28A, FN-34, FN-39 and FN-40. inspected creek and noted some sheen on water. - well FN-34 is located in northwest corner of the site, west of the former maintenance building. no product found on top of the water, but heavy

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tar like material noted on side of the well casing and at the bottom of the well. - well FN-28A is located east of the two-story building. no product noted in this well - wells FN-12, FN-14, FN-15A, FN-22, FN-39 and FN-40 are located in alley (access to 190 Morgan Ave) on south side of the former southern tank complex. - well FN-39 is located on south side of the alley. no product noted in this well - well FN-15A is located north side of the alley (adjacent to former tank complex wall). free phase petroleum product noted in the well. due to product viscosity, water interface was not used to measure thickness. a product sample was collected for fingerprint analysis. - well FN-12 is located on north side of the alley (adjacent to former tank complex wall and east of well FN-15). no product noted in this well. - well FN-40 is located on south side of alley (south of well FN-12). 0.4 ft of product noted in this well, and noted diesel like odors. - well FN-14 is located in middle of alley (southeast of well FN-12 and closest accessible well to 190 Morgan Ave). free phase product noted in the well. due to clogged bottom, could not measure product thickness. product sample collected for fingerprint analysis. diesel like odors noted in the well - well FN-22 is located far south end of the open lot on south side of the property. no product noted in this well 1:46 PM:- spoke with Mr. Cohen and informed him about finding product in wells. asked him to analyze product samples. due to diesel like odors in wells located in the alley, went to site 190 Morgan Ave which is a bus repair facility. met with on-site operator who refused to provide name and number. he provided business email (jbrserviceinc@gmail.com) and allowed access to the repair area for inspection. noted a waste oil tank along south wall of the facility. I left site after this. Steve was going to check two more wells: FN-16 (east of FN-15 and adjacent to former tank complex wall) and FN-19 (at curb on southwest side of the site and at the entrance of the alley) 12/21/15-Hiralkumar Patel. 9:27 AM:- spoke with Mr. McGaha and discussed observations during the site visit. asked him to submit a summary of field activity on 12/18/15. 9:35 AM:- spoke with Mr. Cohen. based on field observations, asked him to immediately remove product from the impacted monitoring wells and conduct weekly well gauging/product recovery, for at least a month. Mr. Cohen inquired about approval of remedial action report submitted in Oct. 2014. informed him that the report recommended removal of two on-site tank systems. after reviewing the report, the department had discussed tank removal activity with consultant at that time and waiting for result of tank removal activities. 12/23/15-Hiralkumar Patel. 8:18 AM:- left message for Mr. McGaha inquiring about status on product removal from impacted wells at the site. 8:20 AM:- left message for Mr. Cohen inquiring about status on product removal from impacted wells at the site. 8:25 AM:- sent email to Mr. Cohen and Mr. McGaha. asked them to submit document confirming removal of free phase product from impacted monitoring wells. 11:10 AM:- spoke with Mr. McGaha. he is going to the site today to deliver the pump system for product removal. he believes that product from the impacted wells will be removed today. asked him to send email, once product removed from the wells. 12/24/15-Hiralkumar Patel. 9:38 AM:- sent email to Mr. Cohen and Mr. McGaha inquiring about document confirming removal of free phase product from the impacted wells. 11:00 AM:- received email from Isaac. he mentioned that today they will be pump wells with product and gauge accessible wells. 11:02 AM:- sent email to Isaac. asked him to provide information about amount of oil recovered from each well and to re-gauge existing wells. email copied to Mr.

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Cohen and Mr. McGaha. 2:00 PM:- received email from Isaac. he mentioned that they are having trouble with the pump. 12/28/15-Hiralkumar Patel. received email from Isaac (at 6:28 PM on 12/24/15). he gauged eight wells and found product in one well. he is unable to pump out oil due to pump issue. received another email from Isaac (at 6:51 PM on 12/24/15) including gauging data for eight wells. almost 2 ft product found in well FN-15A. 12/29/15-Hiralkumar Patel. 8:52 AM:- sent email to Isaac inquiring update on removal of free phase product from impacted monitoring wells at the site. email copied to Mr. Cohen and Mr. McGaha. 12/30/15-Hiralkumar Patel. 10:50 AM:- left message for Mr. Cohen inquiring update on product removal from impacted monitoring wells. 10:53 AM:- left message for Mr. McGaha. 11:03 AM:- received email from Isaac stating that pump does not work. 11:10 AM:- sent email to Isaac. informed him that if the pump does not work, then alternate method must be used. also informed him that the Department requires immediate removal of free phase petroleum product from the impacted monitoring wells at the site and document confirming such activity must be submitted to the Department no later than COB December 31, 2015. email copied to Mr. Cohen and Mr. McGaha. 01/04/16-Hiralkumar Patel. received email from Isaac (at 7:50 PM on 12/31/15). they gauged wells today and found 2 ft of product in well FN-15A. he mentioned that product was removed from the impacted well. they have not found product in other wells. they are working on uncovering more wells. 1:20 PM:- sent email to Isaac and asked to provide schedule for this week's well gauging activities so site visit can be made. email copied to Mr. McGaha and Mr. Cohen. 01/05/16-Hiralkumar Patel. received email from Isaac (at 4:40 PM on 01/04/16). he will be on-site on 01/08/16 to gauge the wells. 01/08/16-Hiralkumar Patel. 9:15 AM:- visited site and met Patrick, person working for property management. while at the site, witnessed gauging of two monitoring wells: FN-14 and FN-15A. thin layer of product noted in well MW-14 and approx. 1 ft of product noted in well MW-15A. asked Patrick to remove product from the wells. he will continue gauging other wells. inspected creek and found no sheen on water. 10:59 AM:- spoke with Isaac and asked him to continue weekly well gauging and product removal until further notice. 1:03 PM:- sent email to Mr. McGaha and asked to submit report for fingerprint analysis. email copied to Mr. Cohen. 2:29 PM:- received email from Isaac including well gauging summary. product found in well FN-15A only. 2:59 PM:- received email from Mr. McGaha. he has not received fingerprint results yet. 01/15/16-Hiralkumar Patel. received email from Isaac (at 6:38 PM on 01/14/16) including well gauging data. out of seven monitoring wells gauged, product found (approx. 1 ft) in well FN-15A only. 01/19/16-Hiralkumar Patel. 12:25 PM:- received email from Mr. McGaha including result of fingerprint analysis for two product samples collected on 01/12/16. Mr. McGaha stated results present the findings of undermined . I have requested the laboratory provide any additional details available regarding the carbon chain length etc. reviewed fingerprint sample results. as per lab report, two product sample (White Top & Black Top) were collected on 01/12/16. also as per comments in the lab report: petroleum hydrocarbon chromatogram most closely resembles diesel fuel / fuel #2. the sample was quantitated against C9-C alkane hydrocarbon standard. 01/20/16-Hiralkumar Patel. 10:36 AM:- spoke with Mr. McGaha regarding product sample collection for fingerprint analysis. he mentioned that result of product samples collected on 12/18/16 were inconclusive, so they collected another set of samples on 01/12/16.

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informed Mr. McGaha that as per gauging data from Isaac, product found in only one well FN-15A during gauging on 12/24/15, 12/31/15, 01/08/16 and 01/14/16. asked him to submit result of fingerprint analysis for product samples collected on 12/18/15 and information about from where the two product samples were collected on 01/12/16. reviewed chain-of-custody submitted with fingerprint analysis report and it was noted that the sample was collected from NJ. also, there is no indication anywhere in the report that these product samples were collected from 200 Morgan Ave. 10:51 AM:- spoke with Mr. McGaha again and informed him about sampling location (NJ) noted in chain-of-custody. at this time, he mentioned that sampling report he submitted yesterday is actually for samples collected on 12/18/16. he thinks lab filled up the chain-of-custody when samples were dropped there. asked him to send letter report including sample result and explaining issues with chain-of-custody. 11:05 AM:- left message for Mr. Cohen. 2:00 PM:- received email from Mr. McGaha explaining information noted on chain-of-custody. Regarding the fingerprint samples collected on 12/18/2015. The results of these samples were submitted on January 19, 2016. Today you pointed out errors on the chain of custody related to these samples. The information on the chain of custody is wrong. Steve collected the samples on 12/18/2015, when you were on-site, and dropped the samples to our office location that evening. Steve told me the labels for the samples were filled out, but he did not have a chain of custody. I requested another individual to get the samples to the laboratory. It is at this point that the sample was mishandled and errors were introduced into the process. After our phone call I took a closer look at the chain of custody and attempted to determining what happened to the samples. Just before but also after our second phone call, I learned that the samples were not dropped off to the laboratory until after the Christmas and New Year holidays. When they were dropped off, they were dropped to our sales representative for Phoenix Laboratories for delivery to Phoenix Laboratory. The laboratory sales representative completed the chain of custody so that the samples could be processed. The information for the chain of custody was provided by the individual who was requested to get the samples to the laboratory. Unfortunately, for fear of reprimand for not delivering the samples on time, that individual did not consult Steve or I for the correct details for the chain of custody. When inquiring about the time-frame to receive the results I was presented with an excuse for the delay which. The samples were obviously mishandled. I take full responsibility for this situation. I chose an under-qualified person to complete what I considered to be a simple task, and get the samples to the laboratory. The chain of custody was completed poorly, at best, and is the only reason for this communication. The transport of the samples to the laboratory had nothing to do with the responsible party for Morgan Terminal. The samples from Morgan Terminal were analyzed by a NY State certified laboratory. The fingerprint analysis samples delivered to Phoenix were the only fingerprint analysis samples we have collected since 12/18/2015. I apologize for the situation and I will again offer to re-sample the product for fingerprint analysis to eliminate issues related to the sample handling and chain of custody errors caused during sample delivery to the laboratory. 01/25/16-Hiralkumar Patel. 1:01 PM:- sent email to Mr. McGaha. informed him that the department has not received a report for field work conducted on 12/18/15. asked him to submit report, including details about product sample and analysis

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and results of subsequent well gauging/product recovery activities. email copied to Mr. Cohen and Arthur Schwartz (aschwartzesq@optonline.net). 01/26/16-Hiralkumar Patel. received email from Mr. McGaha (at 10:47 PM at 01/25/16) including an interim remedial measures progress report. abstract: - a magnetometer survey was performed to locate all monitoring wells at the property that have been covered or for which the current location is currently not visible or known. the report is missing date and result of this survey ---------- - wells FN-12, FN-14, FN-15, FN-22, FN-28A, FN-34 and FN-39 (and also FN-40 which is not listed in text part of the report) were gauged on 12/18/16 - sample of LNAPL was collected from FN-14 and FN-15 - groundwater elevations fluctuate between 1.32 ft above mean sea level at FN-12 in Dec. 2014 to 8.88 ft above mean sea level at FN-34 in May 2014 - morgan terminal has removed 1.029 gal of oil during the reporting period between 12/14/15 and 01/15/16 - owner requested to modify well gauging/product recovery schedule from weekly to bi-weekly the submitted report is considered incomplete due to: - missing results of magnetometer survey - site map including location of formerly removed tanks and all the wells installed in past whether it is visible or not at this point 1:46 PM:- sent email to Mr. McGaha and asked him to submit revised report including following: 1. result of magnetometer survey performed (to locate all monitoring wells at the property that have been covered or for which the current location is currently not visible or known) at the site, including date of the survey. 2. a scaled site map including current site use, existing structures, tank systems and monitoring wells. ask him to mark working condition of each available monitoring well. also informed Mr. McGaha that the Department does not agree with the proposed Remedial Action Schedule submitted in the report and requires continuation of weekly well gauging/product removal. asked him to submit a revised report no later than COB February 05, 2016. email copied to Mr. Cohen. 02/03/16-Hiralkumar Patel. 10:13 AM:- sent email to Mr. McGaha and asked him to include results of weekly well gauging for the week of Jan. 18, Jan. 25 and Feb. 1st, in the revised report (due on 02/05/16). email copied to Mr. Cohen. 02/09/16-Hiralkumar Patel. 1:31 PM:- spoke with Mr. McGaha and inquired him about report. he just received some missing information about well monitoring/gauging last week and the report will be submitted by tomorrow morning. 02/10/16-Hiralkumar Patel. 2:06 PM:- received email from Mr. McGaha including amended interim remedial measures progress report. the amended report includes date (12/16/15) and result of magnetometer survey, description of existing site use and location of on-site structures, and results of well gauging conducted on 02/05/16. on-site wells were not gauged on 01/22/16 and 01/29/16 as site was covered with snow. during well gauging on 02/05/16, 2.4 ft of product found in well FN-15. 02/16/16-Hiralkumar Patel. received email from Mr. McGaha (at 5:27 PM on 02/12/16) including well gauging data for week of Feb. 8th. total of ten wells (FN-12, FN-14, FN-19, FN-22, FN-28, FN-34, FN-39, FN-40, GW-42 and GQ-43) were gauged. record does not include result for well FN-15. record includes numbers, but does not include information about what this numbers represent to. also there is no result for well FN-15. 9:16 AM:- sent email to Mr. McGaha inquiring about result for well FN-15. also inquired about numbers listed in last week's well gauging data. email copied to Mr. Cohen, Cameron Hendrick (deweyhendrick@yahoo.com) and Arthur Schwartz (aschwartzesq@optonline.net). 11:58 AM:- sent letter to English Kills

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Ventures LLC requiring submission of revised RIR including: 1) continuation of weekly groundwater monitoring/product removal, 2) inspection/maintenance of boom in the creek and 3) further groundwater delineation via installation of monitoring wells along creek. asked property owner to submit revised RIR no later than 05/31/16. letter emailed to Mr. McGaha, Mr. Feller and Mr. Cohen. letter copied to DEC Austin, DEC Vought, DEC DeMeo and DEC Urda. 03/24/16-Hiralkumar Patel. 12:04 PM:- received email from Mr. McGaha including a aerial map with proposed location of two monitoring wells. Mr. McGaha mentioned that they have added new absorbent boom in the waterway adjacent to the property to address the sheen on the water that has been/is being observed in the last several months. the new boom does not extend across the entire waterway, and does not capture material that may be entering the waterway from the outfall at the end of the waterway. the goal is to determine if the sheen originates from outfall or another location. they have also performed a dye trace of drains at the subject building to determine if the source of the sheen on the waterway could originate from piping below the property. a magnetometer was used to locate additional monitoring wells at the property. they have located 11 monitoring wells. additional effort has been scheduled to continue this effort. repair of the damaged wells is also being scheduled. the magnetometer also identified an anomaly near the small structure at the north side of the property. additional investigation of the anomaly is proposed including a small excavation above the anomaly. Mr. McGaha mentioned that weekly well gauging is continuing. 03/25/16-Hiralkumar Patel. 2:42 PM:- sent email to Mr. McGaha and asked him to submit a scaled site map including all existing wells and location of proposed monitoring wells. email copied to Arthur Schwartz and Mr. Cohen. 04/07/16-Hiralkumar Patel. received email from Mr. McGaha (at 10:17 PM on 04/06/16) including a site map with location of two proposed wells. he mentioned that the wells at the property will be repaired and re-surveyed for horizontal position and elevation following the installation of the two proposed wells. he also mentioned that the survey will allow for an improved scaled map, but they do not anticipate improving the maps until the survey is complete. 04/08/16-Hiralkumar Patel. 3:08 PM:- sent email to Mr. McGaha and informed him that proposed well locations look fine. 06/02/16-Hiralkumar Patel. received email from Mr. McGaha (at 12:55 PM on 06/01/16) including remedial investigation report. abstract: - remedial investigatory efforts performed at the site between Feb. 2016 and May 2016: weekly well gauging and LNAPL removal; monitoring well repair; magnetometer survey; dye trace - two (2) 2-inch monitoring wells (MC-1 and MC-2) were installed at the south and west side of bulkhead at the end of inlet, to a depth of 20 ft bg with 15 ft of screen - during the well installation the soil was screened using PID. PID readings were not detected above background levels - site is underlain by dark, very loose to medium compacted, fine to medium-grained sand with a trace pebbles, silt, brick and concrete - at 12 ft a peat layer consisting of very soft to medium compacted peat and/or organic silt with trace plant fibers and fine sand was encountered - soil samples were not collected during installation of wells MC-1 and MC-2 -------- - groundwater samples were collected from MC-1 and MC-2 - found CVOCs in groundwater sample from MC-2 - wells FN-12, FN-14, FN-15, FN-22, FN-28A, FN-34, FN-39, FN-40, FN-42, MC-1 and MC-2 were gauged weekly - during the reporting period, absorbent socks were used to collect LNAPL form wells - in addition

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to absorbent socks, a double diaphragm pump is used to collect LNAPL directly from wells containing LNAPL during regular product recovery events - based on all available data, groundwater elevations fluctuate between 1.32 ft above mean sea level at FW-12 in Dec. 2014 to 15 ft above mean sea level at FN-34 in May 2014 - presence of LNAPL is currently limited to an isolated area surrounding FN-14, FN-15 and FN-40 - manholes of the nine of the existing wells (FN-12, FN-14, FN-15, FN-22, FN-28, FN-34, FN-39, FN-40 and FN-42) were replaced - magnetometer survey was helpful in locating a total of 12 existing monitoring wells at the site (these wells were known for last couple of years) - magnetometer survey was hindered by the presence of steel storage container near the office building, therefore, the location of 550 gal heating oil tank could not be determined - the 3,000 gal diesel tank was not located at the property and it is presumed that the tank was previously removed - one anomaly indicative of a suspect UST was identified during the magnetometer survey. the anomaly was located 8 ft east from the south corner of the ancillary building at the north side of the property. the anomaly was approx. 4 ft wide and extended approx. 3 ft from the wall of the ancillary building. the asphalt paving was removed above the area of the anomaly and soil was excavated to a depth of 5 ft bg, however, no UST or evidence of petroleum were discovered in this location - in an effort to investigate potential sources related to the oil sheen identified on the English Kills, the drains at the bus area and the domestic drains within the building were tested with a non-hazardous dye. dye was not identified in the creek ---------- - during a period of low tide, the skeleton of what appears to be a boat was observed in the mud at the bottom of the inlet below the water - based on the initial site characterization soil samples collected by Fenley & Nicol in 1993 and the more recent soil samples collected by GeoQuest in 2014, the contaminants identified in soil are considered historic fill and not related to a specific discharge incident or area of concern ---------- groundwater analyticals: ----------MC-2 1,2-Dichlorobenzene----------40 1,3-Dichlorobenzene----------4 1,4-Dichlorobenzene----------10 Chlorobenzene----------8 cis-1,2-Dichloroethene-------11 Vinyl Chloride----------12 - during weekly gauging since Mar. 2016, product found in wells FN-14 (0.01 to 0.31 ft), FN-15 (0.01 to 0.49 ft) and FN-40 (0.13 to 0.60 ft) recommendations: - probing the mud with a tile probe is recommended to determine if an un-natural structural may be present in the mud below the creek - additional investigation for detection of chlorinated compounds in MC-2 - bi-weekly (instead of weekly) gauging of wells - further investigation for USTs using GPR Survey 06/13/16-Hiralkumar Patel. 2:08 PM:- left message for Mr. McGaha. asked him to submit missing boring/well logs for MC-1/MC-2 and Appendix A. also asked him to call back to discuss use of Proposed Conceptual Approach to Site Remediation dated 07/11/2005. 2:09 PM:- sent email to Mr. McGaha and asked to submit missing information in the report. email copied to Mr. Schwartz and Mr. Cohen. 06/16/16-Hiralkumar Patel. received email from Mr. McGaha (at 2:32 PM on 06/15/16). he mentioned that missing information will be submitted in few days. 08/31/16-Hiralkumar Patel. 11:16 AM:- sent email to Mr. McGaha and asked him to submit missing information immediately. email copied to Mr. Schwartz and Mr. Cohen. 12:03 PM:- received email from Mr. McGaha including boring logs for MC-1 and MC-2 and Remediation System Evaluation report prepared for EPA dated 06/04/2003. as per

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boring logs: - concrete fill and silty sand noted in both borings - both borings were installed to 20 ft bg - groundwater was found at 11 ft bg in MC-1 and 10 ft in MC-2 - gross contamination encountered at 12-13 ft bg - PID reading above 100 ppm recorded below 5 ft depth in MC-1 with maximum of 950 ppm recorded at the end of boring - PID readings noted below 5 ft depth in MC-2 with maximum of 150 ppm at the end of boring Mr. McGaha mentioned that to make the deadline for the submission of the recent report, he relied on verbal communication with Derik, the field technician on-site during the recent field work, regarding the description of soil at MC-1, MC-2, and the soil at the anomaly investigated. Mr. McGaha questioned Derik about gross contamination in MC-1, he described the area of moist and black with an obvious odor. Derick described the layer as having the texture of wood chips. Mr. McGaha stated that this observation did not translate into groundwater contamination, based on the analytical results of the groundwater sample at MC-1, however, the finding warrants further investigation. he intends to inspect the bulkhead on the water side at the same depth to determine if the gross contamination can be associated with the sheen observed on the water. this work will be performed during the investigation of the structure identified on the bottom of the waterway. 09/13/16-Hiralkumar Patel. 1:44 PM:- received message from Mr. McGaha. he mentioned that during well monitoring, they noted product in one of the two wells installed along bulkhead. they are planning to install a pneumatic skimmer to recover product. Mr. McGaha will submit a written work plan for review. 09/15/16-Hiralkumar Patel. 1:01 PM:- sent email to Mr. McGaha and asked him to submit a revised RIR (including discussion of elevated PID readings and field observations that were noted in the boring logs) and results of well monitoring/product recovery since May 2016, by the end of 09/30/16. email copied to Mr. Cohen and Mr. Schwartz. 09/20/16-Hiralkumar Patel. 1:07 PM:- received email from greenpoint11237@gmail.com (without any name) stating that the new well that we installed near the bulkhead recently which has been showing small amounts of oil, we are pumping the oil every day as per Mr. Mcgaha suggestion. Additionally, the two booms that were installed in the water will be changed soon. 09/23/16-Hiralkumar Patel. 2:21 PM:- received email from Mr. McGaha including interim remedial measure report. 09/28/16-Hiralkumar Patel. received email from Mr. McGaha (at 8:56 PM on 09/27/16) including link to amended RIR. 10/26/16-Hiralkumar Patel. DEC Falls came to discuss issues at the site. they received an application for bulkhead repair permit. informed DEC Falls about petroleum contaminated soil and groundwater at the site. 11/01/16-Hiralkumar Patel. 3:30 PM:- received email from Mr. McGaha including interim remedial measure report for Oct. 2016. 11/07/16-Hiralkumar Patel. abstract of amended RIR dated 09/30/16: - two wells (MC-1 and MC-2) were installed - concrete fill and silty sand noted in both borings - both borings were installed to 20 ft bg - groundwater was found at 11 ft bg in MC-1 and 10 ft in MC-2 - gross contamination encountered at 12-13 ft bg - PID reading above 100 ppm recorded below 5 ft depth in MC-1 with maximum of 950 ppm recorded at the end of boring - PID readings noted below 5 ft depth in MC-2 with maximum of 150 ppm at the end of boring - on 09/11/16, LNAPL was identified in well MC-1 - the fact that LNAPL was not immediately identified in MC-1, suggests that the LNAPL could originate closer to the bulkhead and/or north of MC-1, placing a potential source of LNAPL under the boiler house building. the boiler house building is downgradient of the 3,000 gal diesel potentially existing UST

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location - a magnetometer survey failed to identify the 3,000 gal UST - will conduct ground penetrating radar survey to locate 3,000 gal UST - if the ground penetrating radar survey does not locate the UST, a hole will be dug by hand to determine if the USTs are in the areas identified on historical maps - monitoring wells (FN-12, FN-14, FN-15, FN-22, FN-28A, FN-34, FN-39, FN-40, FN-42, MC-1 and MC-2) gauged weekly - absorbent socks and double diaphragm pump were used to collect LNAPL - groundwater flow tends to be in a northeast direction - proposes to excavate immediately adjacent to the bulkhead that parallels Morgan Ave to a depth of 14 ft bg to investigate presence of sheen on both side of bulkhead in area of MC-1. the size of the excavation will be limited to 14 ft bg inside the bulkhead, and is expected to be the width of a single backhoe bucket (2 ft) and 6-8 ft long to allow the arm of the excavator to reach the required depth - will remove any LANPL from the excavation and install a 4 inch diameter recovery sump - property owner proposes to use previously approved conceptual approach dated 07/11/2005 - during weekly gauging, found product in wells FN-15 and FN-40 - report notes that well FN-12 is in close proximity to a water line that has somehow been damaged and is leaking water. the water level is just below grade from 09/02/16 through 09/16/16. abstract of interim remedial measure report dated Oct. 2016: - gauged wells FN-12, FN-14, FN-15, FN-28A, FN-34, FN-39, FN-40, FN-42, MC-1 and MC-2 - total of 5.87 gal of oil have been collected using the absorbent socks since May 2014 - total of 3.91 gal of oil have been collected by pumping since Dec. 18, 2015 - will replace boom in creek - will install an active LNAPL skimmer near the bulkhead to the Newtown Creek inlet that parallels Morgan Ave (in area of well MC-1) - weekly gauging data from 09/16/16 through 10/28/16 shows presence of product in wells FN-15, FN-40 and MC-1 (0.38 ft on 09/23/16) discussed with DEC Austin and DEC Vought. based on result of historical investigation and recent groundwater monitoring, the department will request: - installation of additional monitoring wells (south of FN-40, east of FN-14, northeast of FN-14, couple of well on north side of former southern tank complex, at least two wells east of MC-2 along the bulkhead) to confirm containment of plume and for continuous monitoring/product removal - continuation of well monitoring/product removal (on monthly basis) and submission of quarterly reports until site development a meeting with property owner is needed to discuss future actions and submission of a RAWP. 3:06 PM:- spoke with DEC Falls regarding requirements for bulkhead permit application. he mentioned that missing information in the application can be discussed during meeting with property owner in office. Caroline Kwan Project Manager Special Projects Branch U.S. Environmental Protection Agency Ph. (212) 637-4275 email: kwan.caroline@epa.gov Supinderjit Kaur Remedial Project Manager EPA, Region 2, ERRD-SPB-MPS PH. (212) 637-4167 email: kaur.supinderjit@epa.gov 11/08/16-Hiralkumar Patel. 8:52 AM:- left message for (and sent email to) Mr. McGaha requesting a call back. email copied to Mr. Schwartz and Mr. Cohen. 11/10/16-Hiralkumar Patel. 1:34 PM:- received call from Mr. McGaha. informed him that to discuss further remediation activities at the site and actions related to bulkhead repair/replacement work, the department likes to meet property owner, environmental contractor/consultant and contractor for bulkhead work. Mr. McGaha will call back after discussing with property owner. 11/18/16-Hiralkumar Patel. 12:04 PM:- received email from Mr. McGaha confirming meeting on 12/14/16. 12/06/16-Hiralkumar Patel. spoke with

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Mr. McGaha. he confirmed that Mr. Schwartz, Allan and himself will meet DEC on 12/14/16. asked him about any consultant/engineer who will be handling bulkhead repair/replacement project. he will contact property owner. 12/14/16-Hiralkumar Patel. 1:00 PM:- met with Mr. Schwartz, Mr. McGaha, Allan Francis, DEC Vought, DEC Urda, DEC Chan, DEC Greco and DEC Falls. Mr. Schwartz mentioned that they are planning to replace rotted sections of bulkhead above water line and planning to work during low tide. DEC permit unit has asked for detailed plan on bulkhead repair work, including containment procedure and counter measures on-hand. asked Mr. Schwartz to inform DEC prior to beginning of bulkhead work and report immediately of any petroleum discharge issue during bulkhead work. to remediate remaining petroleum contaminated areas at the site, Mr. McGaha proposed following: - a test pit trench perpendicular to bulkhead in the area of well MC-1 - placement of larger diameter recovery well in proposed trench in area of MC-1 with installation of skimmer at beginning and possible use of pump & treat technique later on - a pump test prior to beginning pump & treat operation in area of MC-1 to confirm radius of influence - in-situ remediation using oxidants in alley - a pilot test prior to application of oxidants in alley prior to in-situ remediation at the site, informed Mr. Schwartz and Mr. McGaha that the department requires additional monitoring wells to the north, east and south of existing wells MW-15, MW-14 and MW-40 to confirm plume containment and effectiveness of in-situ remediation. Mr. Schwartz mentioned that a re-zoning application has been submitted to city department for redevelopment of the site in a manufacturing building. asked Mr. Schwartz to submit copy of re-zoning application. Allan Francis **site manager** Ph. (347) 859-6925 email: allanfrancis73@gmail.com Arthur Schwartz, esq. PH. (732) 905-1008 email: arthur@aschwartzesq.com 2:59 PM:- sent email to Mr. McGaha requesting property owner's mailing address. email copied to Mr. Francis, Mr. Schwartz and LEP Management. 12/16/16-Hiralkumar Patel. 1:47 PM:- received email from Mr. McGaha including mailing address for property owner. Novack Burnbaum Crystal LLP. 675 Third Avenue, 8th Floor New York, NY 10017 Attn.: Edward Burnbaum 3:30 PM:- sent letter to owners of lot # 101 (Greenpoint Bushwick LLC.) and 207 (Bushwick Star Management LLC.) including approval for amended RIR dated 09/30/16 and requiring submission of RAWP within 90 days of the date of this letter (as per the signed consent order). asked them to include following in RAWP, which was agreed upon during meeting: 1) details about installation of sentinel wells on lot 207, 2) sampling methodology during installation of sentinel wells, 3) test pit investigation at location of MC-1, 4) active remediation at location of MC-1 and 5) application of oxidants to treat groundwater contamination on lot 207. letter emailed to DEC Urda, DEC Greco, DEC Falls, DEC Chan, Mr. Schwartz, Mr. McGaha and LEP Management. 12/19/16-Hiralkumar Patel. 2:52 PM:- received email from Mr. Schwartz including a copy of letter to NYC Dept. of City Planning. as per the letter, a site redevelopment is proposed including one (1) 10-story building. one of the site plan shows garage in cellar. no other construction details are available. 12/23/16-Hiralkumar Patel. 2:21 PM:- received email from Mr. McGaha including interim remedial measure report for Nov. 2016. -wells FN-12, FN-14, FN-15, FN-19, FN-22, FN-28A, FN-34, FN-39, FN-40, FN-42, MC-1 and MC-2 were gauged - based on all available data, groundwater elevations fluctuate between 1.22 ft bg at FN-12 on 08/18/16 to 13.85 ft bg at MC-1 on 11/25/16 - total of 4.31 gal of oil have been collected by pumping

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since Dec, 2015 - weekly gauging data from 11/08/16 through 12/02/16 shows presence of product in wells FN-15 (0.12 to 0.65 ft) and FN-40 (0.14 to 0.25 ft) 01/11/17-Hiralkumar Patel. received email from DEC legal including copy of full-executed modification to the consent order. 01/26/17-Hiralkumar Patel. received email from Mr. McGaha (at 6:40 PM on 01/25/17) including interim remedial measure report for Dec. 2016. -wells FN-12, FN-14, FN-15, FN-19, FN-22, FN-28A, FN-34, FN-39, FN-40, FN-42, MC-1 and MC-2 were gauged - based on all available data, groundwater elevations fluctuate between 1.22 ft bg at FN-12 on 08/18/16 to 13.85 ft bg at MC-1 on 11/25/16 - total of 4.40 gal of oil have been collected by pumping since Dec, 2015 - wells were gauged three times in Dec. 2016: 12/02/16, 12/06/16 and 12/22/16 - gauging data shows presence of product in wells FN-15 (0.22 to 0.33 ft) and FN-40 (0.18 to 0.24 ft) - proposes to submit a remedial action work plan by 03/13/17 02/06/17-Hiralkumar Patel. DEC Austin received an email (on 02/04/17) from Seth Friedland. he mentioned that his client is seeking to develop the site and they are having an exploratory meeting with OER on 02/08/17. Seth D. Friedland Friedland Law, LLC. PH. (212) 344-1400 Ext. 202 (917) 902-6386 Fax (212) 344-8735 Efax (646) 304-1916 email: sfriedland@friedland.law discussed with OAG Karpen and informed her about scheduled meeting between site developer and NYC OER. inquired her about status on environmental lien on property. 2/27/17-Vought-Conference call on 2/24/17 with RSE, Vought, and Patel. Friedland noted that the site developer he is working for is Arthur Schwartz, who is also the current property owner. Friedland noted that he and Schwartz went to OER to seek possible help on having NYC Dept of Planning rezone the site via a zoning application and were hoping that OER could facilitate the process. Friedland noted that they are considering redeveloping the property for commercial purposes and were intending to perform excavation for at least one underground level . Friedland noted that at time of conference call, his only authorized role was in the rezoning effort but that he may be also brought in as counsel for the environmental issues. Friedland also noted he know nothing of the bulkhead issues with DEC Permits and DEC to send him copy of last email chain. Friedland also noted that Magaha was currently working on RAP as previously discussed with DEC. Freidland also noted he knew of prior Consent Order on site and may possibly want to explore closure of the Consent Order so that Schwartz may enter the OER BCP Program. RSE and Vought replied that any possible closure of the Consent Order would have to go through DEC OGC. Friedland noted that they would proceed with developing the RAP until the possible zoning change is approved and that he would get back to DEC with more information. 2/27/17-Vought-Received email on 2/26/17 from Friedland with cc to RSE and DEC Patel that Randy, Jeff and Kumar, Glad we were able to catch up on Friday. In response to your questions and requests for further information about the project, and DEC s interest in the proposed development of this site, here is some further information about the proposed development project and the zoning changes that are going to be needed to see it through to fruition. Any assistance that DEC can provide of course would be very much appreciated. Here is a very quick summary of the our client s interaction so far with the Department of City Planning (DCP) on the critical zoning issues: First meeting with DCP on February 4, 2016: We need Zoning map amendment from M3-1 to M1-5 that would enable the redevelopment of the Premises with a ten (10) story, 495,370 square foot building. (A copy of the architect s renderings

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showing the proposed building is attached). Designed to align with the City s vision of the North Brooklyn IBZ. The proposal now contains one building (as opposed to two), which rises to ten (10) stories, and consists of 495,370 square feet of commercial floor area (office and retail building). (A copy of the most recent revised Proposed Plans from December 2016, is also attached hereto). Met with City Planning again, January 2017 (LAST MONTH): At that meeting, the following was discussed: 1)Need to Further Revise the plans to depict a more realistic proposal that will incorporate the following: a.Noise; b.Emissions; c.What floor plates could be used without the sky exposure plane; d.Parking whether we need all the proposed spaces and whether we should have the cellar parking when it is prone to flooding; e.Incorporating higher than the current 12 floor to ceiling heights; f.Pedestrian and vehicular (truck) access; g.Creek access; h.Flood resiliency; i.Types of businesses and how the newly constructed buildings will meet their needs; j.Ventilation - if there is going to be manufacturing use shared with commercial use; 2)Create an urban planning report to support the case for the density, which will include: a. Transportation; b. Neighboring uses; c.Waterfront esplanade 3.Marketing/real estate analysis that shows the proposed uses are needed in this neighborhood. Thanks again, and enjoy the remainder of your week-end. Regards . Vought added attached rendering and revised proposed plans to D2. Vought sent reply to Friedland with cc to RSE, Patel, OGC Urda, NYSOAG Karpen, DEC Greco and DEC Falls that Seth, It was good talking to you as well on Friday and thanks for the email below as well as the attached conceptual site plans. The plans show the development of an underground parking garage so this would certainly be optimum as it would likely allow for source removal down to and including the water table. The Department can assist in expediting the review of any proposed plans as well as participate in any meetings to facilitate approval of such plans. I will also inform both OGC and the NYSOAG of your possible request, as per our teleconference, to close the Consent Order, pending the rezoning of the site. I will also forward you the email chain with regards to the bulkhead and Permit issues we discussed on Friday. Thanks as well and keep us posted. Vought sent OGC Urda and NYSAOG Karpen spill notes above from Fridays call. Vought sent another email to Friedland that Seth, After checking my emails, I realized I have no external emails regarding the Bulkhead Permit request. Please contact Tamara Greco or Justin Falls, copied above, for more information regarding the permit request, if needed. Thanks, . Vought received reply from Friedland with cc to all that Thanks very much, Jeff. I sincerely appreciate it. 03/24/17-Hiralkumar Patel. 12:58 PM:- received email from Mr. McGaha including remedial action work plan. summary: - selected remedial alternatives involves isolating the historic fill over the entire footprint of the site with a cap in areas not already capped with asphalt or concrete and treating residual areas of petroleum contamination using in-situ chemical oxidation and multi-phase extraction for residual LNAPL, establishing an declaration of covenant and restrictions and environmental easement, along with site management plan and operation, maintenance and monitoring plan - capping of currently exposed soil will be performed using a demarcation layer, followed by subgrade material asphalt paving - in-situ chemical oxidation is proposed in the vicinity of monitoring wells FN-14, FN-15 and FN-40 - oxidant solutions would be injected into the soil and groundwater through 15 injection points constructed as temporary well points to a depth of

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approx. 4-5 ft bg, or 0-2 ft below the water table - three additional monitoring wells would be installed to monitor progress of oxidation remediation efforts in this area - multiphase extraction will be performed at the bulkhead with the Newtown Creek and near MC-1 to removal LNAPL and groundwater contamination - multiphase extraction will be operated until LNAPL is removed and groundwater contamination meets stable and acceptable concentrations - following completion of RAWP implementation, quarterly groundwater monitoring would be implemented to document effectiveness of the remedy - groundwater would be samples for one year (four monitoring events) ---------- - track 4 - industrial restricted use soil cleanup objectives are proposed ---------- the work plan does not include sampling methodology during installation of sentinel wells.
07/10/17-Hiralkumar Patel. 10:25 AM:- spoke with Mr. McGaha inquiring about current status on product recovery. he will submit report and interim work plan to address LNAPL contamination. 09/18/17-Hiralkumar Patel. received email from Mr. McGaha (at 11:55 AM on 09/12/17) including an interim remedial measure progress report (last report submitted on 01/25/17). report included results of gauging events conducted until 09/05/17. since 12/22/16, product noted in following wells: product thickness (in ft):
----------FN-14------FN-15------FN-40------MC-1
01/12/17----------0.12-------0.12
03/09/17----------0.28-------0.66
03/30/17----------0.42----------5.14
04/06/17----------0.68-------0.31------3.59
04/19/17----------0.36----------4.89
04/28/17----------0.29-------0.75------3.71
05/11/17----------0.62-------1.56------3.72
05/26/17----------0.46----------3.37
06/02/17----------0.81----------3.01
08/08/17--------0.20-------0.30----------1.10
08/15/17--------0.10-------0.20----------0.80
08/23/17--------0.10-------0.20----------0.40
08/29/17--------0.10-------0.10----------0.29
09/05/17--------0.20-------0.20----------0.40 Mr. McGaha is preparing proposal for operation of an alternative LNAPL remediation system. received email from DEC Ian Beilby. he received pics from NYC's consultant claiming NAPL seeping from bulkhead along the site. 09/20/17-Hiralkumar Patel. 1:15 PM:- visited site and met Arron Abraham (347-773-9633, aarbenabe@yahoo.com) from property management office. inspected creek inlet adjacent in northwest corner of the site (near well location MC-1). noted two layers of sausage booms covering southern half of bulkhead which is owned by former morgan terminal. minor sheen was noted within boom area. no signs of product were noted outside the booms. need to re-inspect area during low tide. 09/25/17-Hiralkumar Patel. received powerpoint presentation from DEC Ian Beilby. pics show seepage of free product from bulkhead towards northern section of inlet which is not covered by booms. 10:08 AM:- sent email to Mr. McGaha inquiring about plan for alternative LNAPL remediation system. email copied to LEP Management, Mr. Schwartz and Mr. Abraham. 09/27/17-Hiralkumar Patel. 9:30 AM:- visited site and met Mr. Abraham. noted heavy sheen between absorbent booms and bulkhead. some of the sheen had escaped boom area as one end of the boom was in air during low tide. spoke with Mr. McGaha. asked Mr. Abraham and Mr. McGaha to adjust booms to contain oil seepage. also asked Mr. McGaha about remediation plan. after

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reviewing pump option, he wants to use previously proposed remedial method: installation of sump between well MC-1 and bulkhead and pumping oil into oil/water separator and discharge water into sewer system after getting necessary permit. 10/03/17-Hiralkumar Patel. 11:51 AM:- received email from Mr. Abraham. he mentioned that a hard boom with sweeps will be installed in the creek. 10/04/17-Hiralkumar Patel. 10:25 AM:- left message for Mr. Abraham inquiring about installation of hard boom and sweeps, and update on site redevelopment plans. 11/04/17-Hiralkuamr Patel. 5:30 PM:- visited site while investigating a report of oil sheen (spill #: 1707515) in Newtown Creek. found free phase product between the bulkhead and boom in the creek. petroleum sheen were noted outside the boom area. a drainage pipe was visible in bulkhead wall due to low tide at the time of inspection. no signs of oil discharge from the drainage pipe. 11/09/17-Hiralkumar Patel. 12:16 PM:- left message for Mr. McGaha. 11/16/17-Hiralkumar Patel. received email from Wardah Azhar from CDM Smith (EPA consultant working on Newtown Creek superfund cleanup) inquiring about the site. Wardah Azhar CDM Smith Ph. (303) 383-2364 email: azharw@cdmsmith.com 11/28/17-Hiralkumar Patel. 11:16 AM:- received message from Mr. McGaha. he mentioned that remediation system for LNAPL has been installed. 12:02 PM:- spoke with Mr. McGaha. he mentioned that a remediation system has been installed and he likes to discuss it prior to turning it on. asked Mr. McGaha to submit details about the remediation system for review. 12/07/17-Hiralkumar Patel. 12:28 PM:- left message for Ms. Azhar. 12:37 PM:- received call from Ms. Azhar. she requested copy of documents/reports received since 2015. 12/11/17-Hiralkumar Patel. as instructed, reports requested by CDM were sent to DEC Austin. 06/07/18-Hiralkumar Patel. DEC Austin forwarded email from Newtown Creek Alliance including site pics of collapsed bulkhead. 8:11AM:- left message for Mr. McGaha. DEC Piper inspected the site and found no sheens emanating from the shoreline. discussed with DEC Stephen Watts in permits. Steve mentioned that they have sent a second incomplete notice on 12/28/16 for an application originally received on 07/20/15. they have not received any response after that. 07/11/18-Hiralkumar Patel. 10:59 AM:- spoke with Mr. McGaha and inquired him about details of remediation system as discussed in Nov. 2017. he mentioned that the system was installed and being managed/monitored by owner's on-site representative. Mr. McGaha will submit remediation system details and summary of work performed since Sept. 2017, by end of the week. Mr. McGaha doesn't know anything about bulkhead work. 07/13/18-Hiralkumar Patel. 1:19 PM:- sent email to Mr. McGaha and asked him to submit remediation system design details and summary of work performed since Sept. 2017. 1:33 PM:- received email from Mr. McGaha including an IRM progress report and design details of LNAPL recovery system installed at well location MC-1. the LNAPL recovery system has been running since Oct. 2017 and has collected approx. 140 gal of oil. according to on-site system attendant, since the LNAPL pumping system has been installed, a significant decrease has been observed on the sheen in the Newtown Creek. also as per site attendant, bulkhead was partially collapsed at the site. report also mentioned that a water leak occurred in the alley in Feb. 2018, causing water to rise to grade in wells FN-39 and FN-12, making it impossible to measure a depth to water at these wells. few weeks later, 04/10/18, wells FN-15a and FN-14 were also under water. the water line leak is reportedly going to be repaired in the near future. report included results of gauging events

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conducted until 07/03/18. since 09/05/16 (last IRM report), product was noted in following wells: product thickness (in ft):
----------FN-14------FN-15------FN-40
12/01/17----------0.18
05/29/18--------0.91-------0.82 06/05/18--------0.70-------1.10
06/12/18--------0.01-------0.69 06/19/18--------0.02-------0.09
06/26/18--------0.01-------1.10 07/03/18----------0.80
08/10/18-Hiralkumar Patel. spoke with DEC Falls. he inspected site on 06/21/18 after bulkhead collapsed. he noticed repair activity without proper permit and asked to stop work. when he re-inspected the site in early July, bulkhead work was completed. Justin issued a NOV on 07/17/18. recently, he received a permit application to legalize previously replaced bulkhead. 09/05/18-Hiralkumar Patel. 12:40 PM:- visited site. currently, the site is being used by a lumber company and almost entire site is full of lumber. on-site tenant mentioned that they moved to the site in Nov. 2017 and doesn't know anything about on-site well monitoring. inspected water channel along the side of the property. silver sheen was noted within/outside the boom at the end of the channel near well MC-1. found partially sunken boat (boom around it) in middle of the channel along the side of the property. no sheen was noted around the boat. inspected on-site building near well MC-1 (former maintenance building), but no oil recovery system was found within the building. inspected alley on south side of the site. multiple 5 gal oil pails and two 55 gal drums were found along the building wall. 5 gal pails were empty but open. one of the drum was closed, but the other drum contained oil to the top and was open. 1:12 pm:- left message for Mr. McGaha and informed him about pails/drums in alley. asked him to immediately secure oil drum and remove other containers. 1:59 PM:- received call from Mr. McGaha. he mentioned 5 gal pails and 55 gal oil drum were removed from the site when lumber company occupied the site. the closed drum contains boom/dirt removed during well monitoring activities. he also confirmed that site representative has closed the oil drum. oil drum and pails will be removed soon. asked Mr. McGaha to schedule a site inspection. 10/05/18-Hiralkumar Patel. 9:30 AM:- visited site and met Mr. McGaha and Arron Abraham. Mr. McGaha showed location of oil recovery tank which is near northeast corner of main building, between the building wall and south bulkhead at the end of water channel. a compressor for the oil recovery system is in basement of main building. total of 240 gal of oil has been recovered since beginning of oil recovery using double diaphragm pump. the 275 gal tank was pumped out last month. asked Mr. McGaha to submit details about time duration and amount recovered from well MC-1. inspected wells in alley on south side of the site where oil found in well FN-15 only. based on shallow depth of groundwater beneath the alley and detection of oil in only one well now, suggested Mr. McGaha/Mr. Abraham to expedite remediation via soil excavation, removal of free phase product and installation of a larger diameter well in the excavation to recover any remaining product. Mr. McGaha will discuss with property owner. Mr. McGaha also proposed to install an another well, north of well MC-1 to increase product recovery using two wells, instead of one. asked him to submit email with plan for additional well installation and remediation via excavation (if approved by property owner) in south alley. 02/07/19-Hiralkumar Patel. discussed with DEC general counsel regarding compliance of existing consent order and pending bulkhead violations. DEC legal will contact property owner to discuss possible way to expedite both

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petroleum remediation and correction of bulkhead violations. 02/12/19-Hrialkuamr Patel. 9:28 AM:- sent email to Mr. McGaha requesting update regarding proposed installation of an additional well near MC-1 to expedite LNAPL recovery, and possible excavation in south alley to remove heavily contaminated material. email copied to lepmanagement89@gmail.com. 03/11/19-Hiralkumar Patel. received email from Mr. McGaha (at 7:49 PM on 03/10/19) including a RAWP. 04/19/19-Hiralkumar Patel. reviewed RAWP submitted on 03/10/19. the RAWP proposes: 1) isolating the historic fill over the entire footprint of the site with in areas not already capped with asphalt or concrete, 2) treating residual areas of contamination via excavation (approx. 25 ft by 35 ft to a depth of 5 ft bg) in alley. endpoint samples from sidewalls will be collected after excavation in alley. bottom samples will not be collected as excavation will be below the water table. a larger diameter (not specified in the RAWP) will be installed with excavation area for post remediation well gauging for a period of three months. 3) multi-phase extraction (including oil/water separator and discharge permit) for LNAPL near well MC-1 via installation of additional recovery wells. multiphase extraction will be operated until LNAPL is removed and groundwater contamination meets stable and acceptable concentrations 4) establishing an declaration of covenant and restrictions and environmental easement. one of the prohibition will be residential land usage without NYSDEC approval 5) submission of site management plan including groundwater sampling from existing wells. groundwater will be sampled for one year (four monitoring events) for VOCs, SVOCs and metals. the RAWP needs to be revised due to following: - the work plan does not include size of replacement well in the alley after excavation - the work plan proposes to analyze soil samples for EPH and SVOCs, and not VOCs/SVOCs - schedule milestone refers to weeks from remedial action start 10:16 AM:- spoke with Mr. McGaha and discussed the proposed RAWP dated Mar. 2019. he mentioned that a 6 inch well will be installed in excavation in alley. informed Mr. McGaha that a revised RAWP is needed including following: - well size in alley excavation - all soil/groundwater samples must be analyzed for VOCs/SVOCs/metals - schedule milestone should be weeks from the RAWP approval (not weeks from remedial action start) 05/08/19-Hiralkumar Patel. 10:45 AM:- sent email to Mr. McGaha and asked him to submit a re-revised RAWP including/correcting following: - size of replacement well that will be installed in the alley after excavation - analysis of all samples for VOCs and SVOCs - schedule milestones should be weeks from the RAWP approval instead of weeks from remediation action start - clarification on # of recovery wells that will be installed around the existing well MC-1 email copied to lepmanagement89@gmail.com, Arthur Schwartz (arthur@aschwartzesq.com) and Aaron Abraham (aarbenabe@yahoo.com). 05/23/19-Hiralkumar Patel. 1:51 PM:- sent email to Mr. McGaha inquiring updates on submission of re-revised RAWP. email copied to lepmanagement89@gmail.com, Arthur Schwartz and Aaron Abraham. 05/30/19-Hiralkumar Patel. 7:41 AM:- received email from Mr. McGaha with a re-revised RAWP including information requested in email dated 05/08/19. a 6 inch diameter well will be installed in a proposed excavation in the alley. the RAWP does not specify total # of wells be installed around MC-1, but proposes to install more product recovery points if needed to achieve remediation completion date of three years. 01/14/20-Hiralkumar Patel. 2:30 PM:- spoke with Mr. McGaha inquiring updates. he mentioned that property owner implemented the proposed Remedial

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Action Work Plan dated May 2019 without being approved by the Department. property owner conducted excavation in alley in Nov. 2019. Mr. McGaha was informed about field work shortly before and was asked to collect endpoint samples. Mr. McGaha visited the site during excavation and collected endpoint samples. the excavation was backfilled without installing proposed larger diameter well. Mr. McGaha has installed two (2) 2-inch diameter wells around existing well MC-1, but no product was noted in new wells. Mr. McGaha stated that the 275 gal product recovery tank was pumped out last month. asked Mr. McGaha to submit report for work conducted at the site. 01/15/20-Hiralkumar Patel. 9:00 AM:- visited site. noted gravel surface in alley indicating possible excavation activities in the alley. no sheen noted in the creek. previously installed boom was damaged and needs to be replaced. noted one new monitoring well near southwest corner of the on-site building (approx. 25 ft away from previously installed well MC-1 near bulkhead). 9:19 AM:- spoke with Aaron Abraham and asked him to 1) submit report for work done to date by the end of 01/22/20, and 2) replace boom in the creek by tomorrow. Aaron Abraham Ph. (347) 294-9566 email: aarbenabe@yahoo.com 10:36 AM:- sent email to Mr. Abraham and asked him to 1) replace boom in the creek by tomorrow, and 2) submit report for activities conducted since Jan. 2018. asked him to submit report by the end of 01/22/20. email copied to Mr. McGaha. 11:44 AM:- received call from Mr. Abraham. he mentioned that Mr. McGaha has ordered a new boom which will be placed in the creek upon arrival (should be done before 01/18/20). he also mentioned that on-site meeting (to gauge wells) will be scheduled after submission of a required report by 01/22/20. 01/23/20-Hiralkumar Patel. 9:17 AM:- sent email to Mr. Abraham and asked him to immediately submit 1) confirmation of replacement of absorbent boom in the creek, and 2) report including details of remediation activities conducted at the site since Jan. 2018. email copied to Mr. McGaha. 01/24/20-Hiralkumar Patel. received email from Mr. McGaha (at 8:10 PM on 01/23/20) including a limited RAR. the report was found incomplete and needed revision due to following: - report is a mixture of a field activities and proposed remedial action. need to remove information previously submitted in the Remedial Action Work Plan dated May 2019 - details about slug test are missing - the report is missing Figure 3, Figure 5, scaled site map with excavation area and endpoint sample locations, endpoint sampling depths, and pictures confirming replacement of boom in the creek - as per first paragraph in Section 3.5, base samples were not collected as excavation extended below the groundwater, but the second paragraph in the same section mention about collection of base samples. also third paragraph in section 3.9 states groundwater was not encountered in the excavation' - there is confusing details about depth of excavation in the alley. as per text on page 11, area was excavated to depth of 8 ft bg, but page 34 states excavation ranged from 5 to 12 ft bg - the report is missing result of waste characterization sampling - as per Section 3.4, excavation was conducted in the vicinity of monitoring wells FN-14, FN-15 and FN-40, but review of attached pictures suggests excavation did not include area of well FN-14 where near 3 feet of product has been noted since 08/24/2018 ---------- (this was clarified later in a revised Limited RAR dated Feb. 2020 submitted on 02/06/20) - the Report is missing detailed logs for wells MC-3 and MC-4. as per the Report, these wells were installed on 05/19/19, but there is no mention about this work in a RAWP submitted on 05/30/19. - section 3.2.9 reads Field notes

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are included in Appendix 4 , but there are no field notes in the report. - the report is missing schedule for installation of replacement well FN-15R and frequency of proposed VEFRring. the Report should include a separate section for proposed remedial activities (addendum to the previously submitted RAWP) such as installation of replacement well FN-15R (including a map with well location), vacuum enhanced fluid recovery (including frequency) at well location MC-1, monthly gauging (and product removal, if noted) of wells in the alley, and groundwater sampling to confirm achievement of remedial goals. 9:07 AM:- left message for Mr. McGaha. 10:02 AM:- received call from Mr. Abraham requesting to schedule a site inspection. informed him that the submitted Limited RAR needs to be revised and site inspection will be scheduled upon review of the revised Limited RAR, once received. 1:45 PM:- sent email to Mr. McGaha and asked him to submit a revised Limited RAR. email copied to Mr. Abraham, Arthur Schwartz and LEP Management. 02/03/20-Hiralkumar Patel. 1:04 PM:- sent email to Mr. McGaha and asked him to submit the revised Limited RAR. email copied to Mr. Abraham, Arthur Schwartz and LEP Management. 02/06/20-Hiralkumar Patel. received email from Mr. McGaha (at 12:05 AM today) including a revised Limited Remedial Action Report which was found incorrect/incomplete. summary: - a slug test was performed at well FN-34 on 03/08/19 - well was pumped while continuous depth to groundwater measurements were collected. when the water level drooped to within one foot of the bottom of the well, the well was allowed to recharge while continuous depth to groundwater measurements were collected - results of three tests presented a hydraulic conductivity of 5.774e-002 m/day - volume of water collected over time was measured and a recharge rate of 2 gal/min was determined - results of slug test indicate that the proposed 5 gal/min oil-water separate could accommodate two multiphase extraction wells and one single phase extraction well --------- - current system near MC-1 is equipped with an oil-water separator, but the system bypasses the oil-water separator and collects only oil from a skimmer positioned in MC-1 - two additional wells MC-3 and MC-4 were installed on 05/19/19 - both wells MC-3 and MC-4 were 2 inch in diameter and 18 ft deep, with screen from 5 to 18 ft bg - groundwater was noted between 9.2 and 9.9 ft bg in wells MC-3 and MC-4 - wells MC-3 and MC-4 were found dry during gauging on 01/03/20 and 01/10/20 - absorbent boom in the creek was replaced 11/16/16, 09/08/17, 11/15/17, 05/31/18, 05/10/19, 08/15/19 and 01/19/20 - excavation was conducted in alley on 11/02/19 - LNAPL has not been identified in FN-14 since Sept. 2017. previously submitted table of well gauging data presents 0.0 as a depth to oil but erroneously reported as oil thickness as a result of spreadsheet calculation error ---------- - LNAPL has not been identified in FN-40 since Dec. 2017 - soil 'near' FN-4 and 'around' FM-15 (25 ft wide by 35 ft long area) were excavated to an average depth of 6 ft bg with over excavation (to 12 ft bg) near former well FN-15 - well FN-15 was removed during excavation - neither groundwater nor LNAPL accumulated in the excavation - based on slug test, absence of groundwater in excavation may be attributable to the density of the soil at the site - a water pipe was damaged during excavation activities resulting in water entering the northeast end of the excavation ---------- - accumulated water was isolated by damming the water at the northeast end of the excavation - water was mixed with soil and disposed with the soil - due to heavy use of the alley, excavation occurred on Saturday and all excavated material was live-loaded directly into

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trucks - total of 205.1 tons of soil were removed - six endpoint sidewall soil samples were collected at the base of the excavation around the perimeter and two endpoint bottom soil samples were collected for 8260/8270 analyses proposed remedial activities (page 27): - will replace former well FN-15 with a 6 inch diameter well FN-15R following the re-surfacing of the area - well FN-15R will be installed to a depth of 15 ft bg, with 1 ft of riser and 14 ft of screen - monthly gauging for wells FN-15R, FN-35, FN-40, FN-12 and FN-14 with product removal, if noted - wells in alley will be gauged for a period of six months - well gauging will be discontinued if no LNAPL noted in alley after six month's monitoring - single phase LNAPL removal will continue at MC-1 until LNAPL is removed from this well - VEFR will be performed at MC-1 on a quarterly basis until LNAPL is removed from this well - absorbent boom in the creek will be maintained and replaced as needed - wells MC-1, MC-2, MC-3, MC-4, FN-34, FN-28A and GQ-41 will be sampled for VOC/SVOC to investigate groundwater near the creek - wells FN-12, FN-14, FN-15R, FN-39, FN-40 and FN-22 will be sampled for VOC/SVOC to investigate groundwater near the alley - interim remedial measure progress report will be submitted semiannually - upon approval of RAWP, site capping will be performed - a RAR will be submitted including deed notice, engineering control for soil, monitored natural attenuation for groundwater under site management plan as per gauging data table, product was not observed in any well except MC-1 and FN-15 since Dec. 2017. as per submitted report, total of twelve (12) wells are currently being monitored: FN-12, FN-14, FN-19, FN-22, FN-28A (or FN-28), FN-34, FN-39, FN-40, FN-42, MC-2, MC-3 and MC-4. well FN-15 was recently removed during excavation in alley and a product recovery system installed in well MC-1. 10:05 AM:- sent email to Mr. McGaha and asked him to submit a re-revised report correcting/including following: - last bullet on page 30 reads: Recorded Declaration of Covenants and Restrictions (if required) . This is required. - as per key note on figure 3, endpoint sample locations are indicated as proposed monitoring well locations - as per list of Figures on page 4, Figure 5 should be Location of Waste Classification and Post Excavation Sampling Points , but figure 5 on page 48/49 is surrounding Land Use Map - as per section 2.2.9 on page 27, field notes should be in Appendix E, but it only includes site photographs - as per section 2.4 on page 27, excavation was performed in the vicinity of monitoring wells FN-14, FN-15 and FN-40, but as per last paragraph on page 20, soil near FN-40 and around FN-15 were excavated - as per appendix list on page 6, Appendix F should be Result of Slug Test, but it is missing - analytical results of waste classification are missing in Appendix G - report is missing pics of replaced boom in the creek - report missing couple of pages on Table 1 (missing gauging data for 08/31/18 to 12/07/18, 05/10/19 to 08/02/19, and 11/08/19 to 01/03/20) email copied to Mr. Abraham, Arthur Schwartz and LEP Management. 02/12/20-Hiralkumar Patel. received email from Mr. McGaha (at 4:52 PM on 02/11/20) stating that replacement well at FN-15 has been scheduled for installation for early next week. 02/20/20-Hiralkumar Patel. received email from Mr. McGaha (at 3:48 PM on 02/19/20) stating that well installed is rescheduled for next week. 02/26/20-Hiralkumar Patel. 2:17 PM:- received email from Mr. McGaha. he mentioned that they have rescheduled the well installation for next Tuesday (03/03/20). they are trying to schedule a vacuum extraction event for next Tuesday also. 03/02/20-Hiralkumar Patel. received email from Mr. McGaha (at

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12:22 PM on 02/28/20) with a revised Limited RIR including correct/missing information as requested in email dated 02/06/20. 05/21/20-Hiralkumar Patel. 3:05 PM:- received email from DEC Austin. he received pics/video from Newtown Creek Alliance showing water leak from the site (which now occupied by a concrete plant) into the creek and cement dust cloud over the concrete plant. 05/26/20-Hiralkumar Patel. 10:11 AM:- sent email to Mr. McGaha has asked him to provide update on installation of well FN-15R and result of well gauging/VEFRring. also asked him to mark maps for location of MC-3 and MC-4. 1:20 PM:- visited site to confirm report of water leak and cement dust at the site. no cement dust cloud or water leak noted at the site. no petroleum sheen noted in boomed area at the end of the creek. reviewed video sent by Newtown Creek Alliance which shows low water level in the creek. as the water level in the creek was high during the inspection, there was no water leak observed. the northwest portion of the site (at the end of creek where well MC-1 is located) was previously used as a parking lot and now being used for lumber storage. the remaining site (more than 75%) which used to be a lumber storage yard until late 2019 is now occupied by a concrete plant. as per lumber yard operator, they sold site lease in Nov. 2019 and construction of the concrete plant begun in Nov. 2019. the concrete plant started its operation in Feb. 2020. concrete plant uses entrance on Morgan Ave for truck entering the plant and uses access at the end of south alley as exit route for trucks. the entire site is now capped with concrete surface. noted a new well (possibly FN-15R proposed in Limited RAR) in previously excavated area in the alley. lumber is stored, around existing wells, on northwest portion of the site. due to heavy operation, could not confirm existence of previously installed monitoring wells in the concrete plant area. 07/08/20-Hiralkumar Patel. 12:24 PM:- sent email to Mr. McGaha and asked him to provide update on installation of replacement well and well monitoring/product recovery. 07/09/20-Hiralkumar Patel. Willis Elkins (welkins@newtowncreekalliance.org) of Newtown Creek Alliance reported another spill (# 2002669) due to sheen observed in creek. 07/10/20-Hiralkumar Patel. 10:12 AM:- spoke with DEC Sekhon who visited site yesterday. he did not observe any petroleum sheen in or out of the boom area. 07/23/20-Hiralkumar Patel. DEC Austin received a complaint from Newtown Creek Alliance about some water discharge from the concrete plant at the site. 12:30 PM:- visited site to inspect any dust/oil discharge into the creek from the site. noted water dripping from behind the bulkhead along the concrete plant, but no signs of any concrete dust or petroleum discharge noted. noted some silver sheen at the end of creek, but no petroleum sheen was noted in the creek. during inspection, noted two 55 gal drums near well MC-1. also noted that the well MC-1 was open and oil recovery pump was outside the well. 07/27/20-Hiralkumar Patel. DEC Austin received email from Newtown Creek Alliance including pics of drum/oil recovery hose near well MC-1. 07/28/20-Hiralkumar Patel. discussed with DEC Austin. he asked to readjust hard boom to close open area at one end and also to replace dirty sausage boom. 9:28 AM:- spoke with Mr. McGaha and inquired him about open well MC-1. Mr. McGaha stated that Aaron (site representative) reported some issue with float within the well. so Aaron removed oil recovery system to fix the float. asked Mr. McGaha to schedule site visit to fix hard boom/replace sausage boom/gauge wells. 10:37 AM:- sent email to Mr. McGaha and asked him to provide site updates (including installation of well FN-15R and product recovery) and schedule for boom

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fix/replacement. email copied to Mr. Abraham, Arthur Schwartz and LEP Management. 07/29/20-Hiralkumar Patel. 2:31 PM:- received email from Mr. McGaha stating that contractor is expected to tighten the hard boom and replace the soft boom tomorrow. he also mentioned that the LNAPL collection drum was reportedly a temporary condition and has been cleaned up. 07/31/20-Hiralkumar Patel. 2:25 PM:- received email from Mr. McGaha including site pics confirming fixing/replacement of booms. he mentioned that the soft boom has been replaced and a pipe was installed along the bulkhead to allow the rise and fall of the hard boom that is now closer to the bulkhead. also, the drums near MCMW-1 have been cleaned up. 08/03/20-Hiralkumar Patel. DEC Austin received pics from Newtown Creek Alliance showing some used booms stockpiled atop the bulkhead. 1:40 PM:- sent email to Mr. McGaha including pics of used booms stored atop the bulkhead. asked him to have these booms removed immediately. also asked him to submit an interim remedial measure report as proposed in the limited RAR. 08/05/20-Hiralkumar Patel. discussed with DEC Austin, OGC and RD. based on review of available information, Austin asked to visit the site during low tide to inspect bulkhead/outfall adjacent to the site. 10:27 AM:- sent email to DEC Susan Maresca requesting help to get tide cycle near the site. email copied to DEC Austin. 08/06/20-Hiralkumar Patel. 6:00 PM:- visited site during low tide. no signs of oil seepage were noted from bulkhead near well MC-1 or from an outfall (which is approx. 50-60 ft north of well MC-1 location). noted some open areas in bulkhead. no sheen was noted on water. oily garbage bag and wheelbarrow were noted on-land near well MC-1. also noted garbage bags (possibly containing dirty booms as per site occupant) on side of bulkhead. the soft boom that was placed in the creek on 07/30/20 was found partially soaked and needs to be replaced. 6:28 PM:- left message for Mr. McGaha. 08/07/20-Hiralkumar Patel. 1:11 PM:- sent email to Mr. McGaha including site pics taken yesterday. asked him to have boom in creek replaced with clean one, clean/remove oily debris and bags containing used booms. 08/11/20-Hiralkumar Patel. 11:20 AM:- received email from Mr. McGaha. he mentioned that the boom in the creek is new. a piece of metal roofing fell in the water, landing on the boom and causing it to be stained with mud. the spent boom has been secured in drums which should be picked up next week. Mr. McGaha stated that the Interim Remedial Measures Report is being finalized, and needs to be reviewed by the property owner. 08/19/20-Hiralkumar Patel. 12:03 PM:- received email from Mr. McGaha including an IRM report which was found incomplete/unacceptable. the report also includes information that has already been submitted previously. 2:34 PM:- sent email to Mr. McGaha and asked him to submit a revised report including only details of work performed since Jan. 2020. asked him to submit a revised report including/correcting following: - the report states on page 10 that 'capping of the site with concrete was performed between March and May 2020', but as per on-site occupant the site was capped and the on-site concrete plant was in operation by Feb. 2020. Please confirm this timeline and update current use of the site - revised Table 1 including well gauging measurements since Jan. 2020 - remove tables 2 (post excavation sample results) and 3 (soil cleanup objectives) - revised scaled site plan including 'all' existing monitoring wells (submitted figures don't include location of wells MC-3, MC-4 and FN-15R) - (no need for Fig. 2 and 3 which were submitted previously in the Limited RAR) - construction details (well depth/diameter, screen length/depth, riser length/depth) of

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replacement well MW-15R - disposal manifest for oil impacted booms removed from the creek to date. - details about method/condition that will be used to determine need for vacuum enhanced fluid recovery from well MC-1 - schedule for sampling of existing wells for lab analysis - revised schedule for well gauging and report submission {all existing wells must be gauged monthly (instead of quarterly) and reports must be submitted quarterly (instead of annually)} email copied to Mr. Schwartz, LEP Management and Mr. Abraham. 08/20/20-Hiralkumar Patel. 10:21 AM:- received email from Willis Elkins from Newtown Creek Alliance including pics showing accumulation of dark material on outside of hard boom at the site. 2:30 PM:- visited site to confirm any product seepage/accumulation inside/outside boom. no signs of any sheen or product seepage were noted in the creek. noted few 55 drums at the site possibly storing previously removed soft booms that were stored in garbage bags atop bulkhead. 2:44 PM:- sent site pics to DEC Austin. 08/28/20-Hiralkumar Patel. 10:53 AM:- received email from Mr. McGaha including a revised IRM report but it needs to be re-revised to clarify/correct/include information. 09/09/20-Hiralkumar Patel. 10:52 AM:- sent email to Mr. McGaha and asked him to submit re-revised report including/correcting/clarifying following: - as per information provided to date, the oil recovery system in well MC-1 is equipped with floatable sensor and it pumps only oil and not oil and water. and as per the revised report, the 275 gal tank associated with the oil recovery system has been emptied five times since installation. is that mean, approx. 1,000 gal of oil recovered from MC-1? or does this system pumps water also? if it pumps water also, then what is % of oil in total volume removed from the tank? - the well gauging measurement table needs to be revised. first of all, it does not include any details about depth to water for wells FN-12, FN-39, MC-2, MC-3 and MC-4 (as per well data monitoring forms included in Appendix E, wells MC-3 and MC-4 were found dry but this information is missing in the table). second, there are two different sets of data for 01/10/2020. third, as per the table, well FN-15 was present with no product during gauging in month of Jan, but the well was removed during excavation in Nov. 2019. - include well gauging data after 07/10/20 also asked him to provide schedule for next well gauging. as per the report, there are total of fourteen (14) wells available to gauge. asked Mr. McGaha to make sure that all fourteen wells are accessible during this site visit. also recommended him to collect groundwater samples from these wells during the visit. email copied to Mr. Schwartz, LEP Management and Mr. Abraham. 09/24/20-Hiralkumar Patel. 12:49 PM:- sent email to Mr. McGaha inquiring update on re-revised report and schedule for next well gauging. email copied to Mr. Schwartz, LEP Management and Mr. Abraham. 10/09/20-Hiralkumar Patel. 11:25 AM:- received email from Mr. McGaha. he mentioned that groundwater is influenced by the tide and at times the floatable sensor is swamped resulting in the collection of water rather than oil. also the floatable sensor can stick causing it to collect water. tank pumping contractor reported presence of 10-20% of oil in the tank. Mr. McGaha stated that gauging was performed at MC-3 and MC-4 but notation of no water was not added to the table. gauging was not performed at MC-2, since this well is no longer accessible. well FN-12 has not been relocated since the excavation in the alley. a metal detector will be used to locate and uncover this well location. Mr. McGaha will submit an amended report including all available well gauging data. 2:09 PM:- sent email to

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Mr. McGaha and inquired him about reason for no accessibility to well MC-2. also asked him to schedule site inspection on 10/22/20, if possible. 2:41 PM:- received email from Mr. McGaha stating that well MC-2 is not accessible as tenant placed storage container on it. 10/14/20-Hiralkumar Patel. 10:10 AM:- received email from Mr. McGaha stating that container (over well MC-2) cannot be moved. 10/22/20-Hiralkumar Patel. 9:00 AM:- visited site and met Mr. McGaha and Aaron Abraham. Aaron gauged wells MC-1, MC-3, MC-4, FN-14, FN-15R, FN-19, FN-22, FN-28, FN-34 and FN-40. well MC-2 was not accessible due to storage container at the location. wells FN-12, FN-39 and FN-42 were not accessible as were buried under dirt/concrete. Mr. McGaha had brought GPR to locate wells FN-12, FN-39 and FN-42. during well gauging in south alley, another monitoring well was noted south of well FN-40 and west of well which is listed as FN-22 in reports from McGaha Consulting. reviewed old site maps and noted that the well FN-22 listed in reports from McGaha Consulting is actually well FN-24 and the unknown well noted during site visit earlier today is well FN-22. inspected creek during the site visit. sheen or product was not observed in the creek, but the soft boom was found stained. asked Mr. McGaha to replace the soft boom in the creek. observations during well gauging: - well MC-1: this well is equipped with an oil recovery system and has a floating sensor in it. the sensor was removed for well gauging. layer of oil was noted on floating sensor. very little oil was noted on water using oil/water interface, but noted a thick layer of oil on oil/water interface probe once removed from the well. Mr. McGaha mentioned that system in well MC-1 continuously pumps oil into oil/water separator tank and that could be the reason for not detecting much oil using the oil/water interface. asked Mr. McGaha to gauge oil/water separator tank weekly. also asked him to turn off oil recovery system in MC-1 once a month and gauge well MC-1 24 hours after turning off the system. - well MC-3: this well is within 10 ft to the northeast of well MC-1. no product was noted in well MC-3. - well MC-4: no oil detection by oil/water interface probe, but oil sheen noted on the probe. asked Mr. McGaha to place an absorbent sock in the well and have the sock inspected/photographed weekly. - well FN-14: no product/sheen observed - well FN-15R: no product/sheen observed - well FN-19: no product/sheen observed - well FN-22 (actually well FN-24 as per historical maps): no product/sheen observed - well FN-28: no product/sheen observed - well FN-34: no oil detection by oil/water interface probe, but oil sheen noted on the probe. asked Mr. McGaha to place an absorbent sock in the well and have the sock inspected/photographed weekly. - well FN-40: this well is approx. 30 ft southeast of well FN-15R. area around well FN-15R was excavated in Nov. 2019. during well gauging today, approx. 1 ft of heavy product was noted in well FN-40. asked Mr. McGaha to initiate product recovery from well FN-40. Mr. McGaha recommended excavation around well FN-40 to expedite remediation. asked Mr. McGaha to submit the pending re-revised report including observations/data of today's inspection, and recommendations/proposals to address product gauging/recovery in wells MC-1, MC-4, FN-34 and FN-40. 12:45 PM:- sent email to Mr. McGaha and informed him confusing notation about well FN-22 and FN-24. asked him to include the actual well FN-22 in future well gauging/monitoring/sampling. asked him to correct well notations in the revised report. email copied to Aaron. 10/23/20-Hiralkumar Patel. 12:15 PM:- sent email to Mr. McGaha and asked him to immediately

NYC DEP HAZ MAT (Continued) **S102143390**

remove product from well FN-40. email copied to Aaron. 1:07 PM:- received email from Aaron Abraham confirming that he pumped out the well FN-40 today. 10/29/20-Hiralkumar Patel. 2:05 PM:- sent email to Mr. McGaha inquiring updates on re-revised report including details about recent site inspection and recommendations based on field observations. email copied to Mr. Abraham. 11/02/20-Hiralkumar Patel. 1:45 PM:- received email from Mr. Abraham. he stated that he has pumped well FN-40 in the alley that had product, removing nearly all product, and now it has only a sheen. he has put in an absorbent sock which should eliminate the sheen. he also put absorbent socks in the two wells in the small yard by the water that had a sheen. he will measure large oil tank today and forward the results to Paul. 12/16/20-Hiralkumar Patel. received copy of a joint permit application package for bulkhead replacement at the site. - four borings (B1 through B4) were installed along the bulkhead - boring B1 was in area of existing well MC-2 - boring B4 was in area of existing well MC-1 - silty sand, clay, wood and fill material were noted in borings - groundwater was noted at 14 ft bg in B1, 12.5 ft bg in B2, 8 ft bg in B3 and 12 ft bg in B4 noted following issues with the bulkhead replacement application: - no pollution control methods proposed in section 6 (i) of the Joint Application Form - incorrect information in section E.1 (g) of Full Environmental Assessment Form Part 1 - Project and Setting. there is history of storage of chlorinated solvents in two of the seven major storage tanks, but the applicant has failed to indicate that - the applicant has only listed remediation project # 241117 in section E.1 (h) of Full Environmental Assessment Form Part 1 - Project and Setting, but has failed to mention spill cases at the site (total of eleven spills reported at the site to date) 1:28 PM:- sent email to Mr. Abraham and reminded him about pending revised report including additional remedial activities discussed during the site visit on 10/22/2020. email copied to Mr. McGaha. 12/22/20-Hiralkumar Patel. received email from Mr. McGaha (at 6:55 PM on 12/21/20) including a revised interim remedial measure report. Mr. McGaha mentioned that LNAPL in well FN-40 has been reduced to a sheen, therefore, the remediation approach is to monitor this well for a little longer. summary of IRM: - on 01/19/20 and 08/01/20, absorbent boom, used to control a petroleum sheen on the water, was removed and replaced - on 03/05/20, well FN-15 was replaced by well FN-15R at the same location. well FN-15R was constructed with 2 inch diameter riser from grade to 1 ft bg and screen from 1 ft to 20 ft bg - on 03/20/20 and 07/20/20, the LNAPL recovery system 275 gal AST was emptied and a high volume extraction event was performed at MC-1 - as per disposal manifests, total of 1,700 gal of oily water was disposed on 03/20/20 and 1,000 gal of oily water was disposed on 07/20/20 - weekly gauging events have continued at FN-14, FN-19, FN-22, FN-28A, FN-34, FN-40, FN-42, MC-3 and MC-4 - automated and manual LNAPL recovery is ongoing at MC-1 - proportions of oil in oil/water mixture removed from the site is estimated to be approx. 20% oil - spent absorbent boom from the creek are stored in drums for later disposal proposed remedial activities: - wells FN-14, FN-15R, FN-19, FN-22, FN-28A, FN-34, FN-40, FN-42, MC-3 and MC-4 will be gauged monthly for six months, after which time, if no LNAPL is identified, monthly gauging will be discontinued - absorbent socks will be used to passively remove sheen of oil in wells FN-34 and FN-40 (also include well MC-4 where sheen noted during gauging on 10/22/20) - single phase LNAPL removal will continue at MC-1 until LNAPL is removed from the well - LNAPL removal

NYC DEP HAZ MAT (Continued) **S102143390**

system in MC-1 will be shut down for a day once per month to allow the pump to be removed from MC-1 and LNAPL thickness to be gauged. at this time, the thickness of oil in the AST servicing the LNAPL recovery system will also be measured - VEFR will be performed at MC-1 on a quarterly basis until LNAPL is removed from this well - absorbent boom in the Newtown Creek will be maintained and replaced as needed until a sheen on the groundwater is no longer detected - wells MC-1, MC-2, MC-3, MC-4, FN-34, FN-28A and GQ-41 (not shown on map) will be sampled for VOCs/SVOCs to investigate groundwater near the Newtown Creek - wells FN-12, FN-14, FN-15R, FN-39, FN-40 and FN-22 (FN-24 as per historical maps) will be sampled for VOCs/SVOCs to investigate groundwater near the alley (as per note in table 1, wells FN-12 and FN-39 are generally covered with soil due to traffic in alley) - upon removal of LNAPL at MC-1, a remedial action report will be submitted detailing the installed site cap, including a deed notice, engineering controls for soil, monitored natural attenuation for groundwater under a site management plan ---------- the proposed remedial activities in the IRM includes only submission of a remedial action report upon removal of LNPAL from MC-1, but does not include any proposal to submit an interim reports (bi-annual interim remedial action reports should be submitted). 01/22/21-Hiralkumar Patel. 11:29 AM:- sent email to DEC Lisa Horwitz including comments on the bulkhead replacement application. email copied to DEC Austin, DEC Falls and OGC Heather. 11:31 AM:- sent email to OGC Heather including comments on the IRM Report and bulkhead replacement application. email copied to DEC Austin. 06/30/21-Hiralkumar Patel. 10:00 AM:- DEC Horwitz, DEC Falls, OGC Heather, Andrew Thyberg (andrew.thyberg@bayenviro.com) and Patrick McPeak (pmcpeak@peakcivilassociates.com). **need to add gauging data on site map.** **MOSF documents on e-docs are only part of larger file in box located in basement storage.**"

Remarks: "CLEANUP BY DEC WINSTON CONTRACTING INC. SUPERVISED BY SIGONA (DEC)"

All Materials:

Site ID:	59302
Operable Unit ID:	972795
Operable Unit:	01
Material ID:	406198
Material Code:	0003A
Material Name:	#6 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	200 MORGAN AVE.
Address:	200 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9208755 / 1998-02-05
Facility ID:	9208755
Facility Type:	ER
DER Facility ID:	57235
Site ID:	305060
DEC Region:	2
Spill Cause:	Equipment Failure

NYC DEP HAZ MAT (Continued) **S102143390**

Spill Class:	C4
SWIS:	2401
Spill Date:	1992-10-29
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	1992-10-29
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-10-30
Spill Record Last Update:	1998-02-10
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG "
Remarks:	"DURING TANK CLEANING OPERATION HOSE COUPLING FAILED -SLUDGE LEAKED TO SOIL AREA EXCAV AND DRUM CONTAM SOIL WILL DISPOSE NRC 142527 CALLED CITI-FUEL HAS CLEANED UP SPILL/SOME CONTAM SOIL NEED TO BE CL"

All Materials:

Site ID:	305060
Operable Unit ID:	972281
Operable Unit:	01
Material ID:	405835
Material Code:	0003A
Material Name:	#6 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	MORGAN OIL CORP
Address:	200 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9105949 / 1991-09-19
Facility ID:	9105949
Facility Type:	ER
DER Facility ID:	57235
Site ID:	251343
DEC Region:	2
Spill Cause:	Abandoned Drums
Spill Class:	B3
SWIS:	2401
Spill Date:	1991-09-03
Investigator:	SJMILLER

NYC DEP HAZ MAT (Continued) **S102143390**

Referred To:	Not reported
Reported to Dept:	1991-09-03
CID:	Not reported
Water Affected:	NEWTOWN CREEK
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Other
Cleanup Ceased:	1991-09-19
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1991-09-03
Spill Record Last Update:	2004-04-07
Spiller Name:	Not reported
Spiller Company:	MORGAN OIL CORP
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MILLER 10/10/95: This is additional information about material spilled from the translation of the old spill file: SHEEN, GLOBS."
Remarks:	"APPEARS TO BE COMING FROM A 55 GAL ABANDONED DRUM IN CREEK. OR MAY BE DUE TO A BULKHEAD (LOW TIDE)"

All Materials:

Site ID:	251343
Operable Unit ID:	956456
Operable Unit:	01
Material ID:	421709
Material Code:	0003A
Material Name:	#6 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	200 MORGAN AVE
Address:	200 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9112693 / 1992-03-13
Facility ID:	9112693
Facility Type:	ER
DER Facility ID:	57235
Site ID:	251344
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Spill Date:	1992-03-12
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1992-03-12
CID:	Not reported
Water Affected:	Not reported

NYC DEP HAZ MAT (Continued) **S102143390**

Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	1992-03-13
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-03-20
Spill Record Last Update:	2003-09-23
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE "
Remarks:	"FD ON SCENE. SPEEDY-DRY APPLIED"

All Materials:

Site ID:	251344
Operable Unit ID:	963025
Operable Unit:	01
Material ID:	414255
Material Code:	0003A
Material Name:	#6 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	IN THE CHANNEL
Address:	200 MORGAN AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1202045 / 2012-05-31
Facility ID:	1202045
Facility Type:	ER
DER Facility ID:	419184
Site ID:	464793
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	2401
Spill Date:	2012-05-30
Investigator:	HRPATEL
Referred To:	Not reported
Reported to Dept:	2012-05-31
CID:	Not reported
Water Affected:	ENGLISH KILLS
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False

NYC DEP HAZ MAT (Continued) **S102143390**

UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2012-05-31
Spill Record Last Update:	2012-08-07
Spiller Name:	BRIAN CISKOWITZ
Spiller Company:	UNKNOWN
Spiller Address:	200 MORGAN AVE
Spiller Company:	999
Contact Name:	BRIAN CISKOWITZ
DEC Memo:	"05/31/12-Hiralkumar Patel. 9:30 AM:- visited site. no oil or sheen observed. after discussing with DEC Austin, case closed."
Remarks:	""

All Materials:

Site ID:	464793
Operable Unit ID:	1214830
Operable Unit:	01
Material ID:	2212900
Material Code:	9999
Material Name:	other - brown material
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

NY MANIFEST:

Name:	NYC DEP HAZ MAT
Address:	200 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY 11201
Country:	USA
EPA ID:	NYP003662657
Facility Status:	Not reported
Location Address 1:	200 MORGAN AVENUE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11201
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP003662657
Mailing Name:	NYC DEP HAZ MAT
Mailing Contact:	JOANNE NURSE
Mailing Address 1:	59 17 JUNCTION BLVD
Mailing Address 2:	Not reported
Mailing City:	FLUSHING
Mailing State:	NY
Mailing Zip:	11373
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7185954675

Z172 **CON EDISON** **NY MANIFEST** **S117738733**
WSW **FRONT OF 200 MORGAN AV** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.237 mi.
1253 ft. **Site 2 of 3 in cluster Z**

Relative:
Lower

Actual:
10 ft.

NY MANIFEST:

Name:	CON EDISON
Address:	FRONT OF 200 MORGAN AV
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYP004718086
Facility Status:	Not reported
Location Address 1:	FRONT OF 200 MORGAN AV
Code:	BP
Location Address 2:	SB16505
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004718086
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	01/23/2015
Trans1 Recv Date:	01/23/2015
Trans2 Recv Date:	01/26/2015
TSD Site Recv Date:	01/26/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004718086
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002620156GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N

CON EDISON (Continued) **S117738733**

Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	250
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Z173 **MORGAN OIL TERMINALS CORP** **NY MOSF UST** **1000889835**
WSW **200 MORGAN AVE** **NY Spills** **NYD074359472**
1/8-1/4 **BROOKLYN, NY 11237** **RCRA NonGen / NLR**
0.237 mi. **FINDS**
1253 ft. **Site 3 of 3 in cluster Z** **ECHO**
NY MANIFEST

Relative:
Lower

Actual:
10 ft.

MOSF UST:

Id/Status:	2-1500 / INACTIVE FACILITY
SWIS Code:	61
Facility Town:	NEW YORK CITY
Contact Phone:	(718) 366-5108
Emergency Contact:	HENRY FOSTER
Emergency Telephone:	(718) 857-6472
CBS Number:	Not reported
SPDES Num:	0-032824
Total Tanks:	7
Total Capacity:	1925000
Avg Throughput:	0
License Stat:	3
Facility Type:	STORAGE TERMINAL/PETROLEUM DISTRIBUTOR
Prod Xfer Options:	AC
Expiration Date:	03/31/1991
Applic Rcvd:	01/14/1991
Operator:	HENRY FOSTER
Owner Name:	MORGAN OIL TERMINALS CORP.
Owner Address:	200 MORGAN AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11337-
Owner Telephone:	(718) 366-5108
Owner Type:	Corporate/Commercial
Owner Status:	1
Owner Mark:	First Owner

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Mail To Name:	MORGAN OIL TERMINALS CORP.
Mail To Address:	C/O SHATZKIN & FURMAN, P.C.
Mail To Address 2:	60 CUTTER MILL RD., SUITE 206
Mail City,St,Zip:	GREAT NECK, NY 11021-
Mail To Contact:	SCOTT E. FURMAN
Mail To Telephone:	(516) 487-3703
Legal Agent Name:	SCOTT FURMAN
Legal Agent Address:	60 CUTTERMILL ROAD
Legal Agent City,St,Zip:	GREAT NECK, NY 11021-
Date Filed:	00/82
Latitude:	40|42|40
Longitude:	73|56|00

Tank ID:	1
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	645000
Product:	NOS 5 OR 6 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	02/22/1994
Inspector Initials:	Not reported
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	03/28/1990
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/23/1993
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	2
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	7000
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	02/22/1994
Inspector Initials:	Not reported
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	03/28/1990
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/23/1993
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	3
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	55000
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	02/22/1994
Inspector Initials:	Not reported
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	03/28/1990
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/23/1993
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	4
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	67000
Product:	NOS 1,2, OR 4 FUEL OIL

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	02/22/1994
Inspector Initials:	Not reported
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	03/28/1990
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/23/1993
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	5
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	507000
Product:	NOS 5 OR 6 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	02/22/1994
Inspector Initials:	Not reported
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	03/28/1990
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/23/1993
Federal Id No:	Not reported
COI Date:	/ /

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Tank ID: 6
Tank Location: UNDERGROUND
Install Date: 00/00
Capacity (Gal): 400000
Product: NOS 1,2, OR 4 FUEL OIL
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Painted/Asphalt Coating
Second Contain: None
Leak Detection: None
Overfill Protection: High Level Alarm
Dispenser: Suction
Test Date: Not reported
Date Closed: Not reported
Status of Data: Complete
Inspected Date: 02/22/1994
Inspector Initials: Not reported
Inspector Status: Not reported
Pipe Flag: False
License Issued: 03/28/1990
Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/23/1993
Federal Id No: Not reported
COI Date: / /

Tank ID: 7
Tank Location: UNDERGROUND
Install Date: 00/00
Capacity (Gal): 244000
Product: NOS 1,2, OR 4 FUEL OIL
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Painted/Asphalt Coating
Second Contain: None
Leak Detection: None
Overfill Protection: High Level Alarm
Dispenser: Suction
Test Date: Not reported
Date Closed: Not reported
Status of Data: Complete
Inspected Date: 02/22/1994
Inspector Initials: Not reported
Inspector Status: Not reported
Pipe Flag: False
License Issued: 03/28/1990

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/23/1993
Federal Id No: Not reported
COI Date: / /

SPILLS:
Name: NEW TOWN CREEK
Address: 200 MORGAN AVE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 2002669 / 2020-07-14
Facility ID: 2002669
Facility Type: ER
DER Facility ID: 419184
Site ID: 608367
DEC Region: 2
Spill Cause: Unknown
Spill Class: Not reported
SWIS: 2401
Spill Date: 2020-07-09
Investigator: HSSEKHON
Referred To: Not reported
Reported to Dept: 2020-07-09
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2020-07-09
Spill Record Last Update: 2020-07-14
Spiller Name: WILLIS ELKINS
Spiller Company: UNKNOWN
Spiller Address: 200 MORGAN AVE
Spiller Company: 999
Contact Name: WILLIS ELKINS
DEC Memo: "7/9/20 - Sekhon Got access to the creek through 200 morgan ave (Gotham Ready Mix). No sheen observed. Due to hot weather pieces of sediments burping up to the surface. DEC Austin updated. 7/14 - Sekhon Site visited again. very little amount of leftover sediments (from last week) noticed. No sheen observed anywhere in the vicinity. Case discussed with DEC Austin and closed. "
Remarks: "booms failing to keep oil contained"

All Materials:
Site ID: 608367
Operable Unit ID: 1355522
Operable Unit: 01
Material ID: 2366699
Material Code: 9999
Material Name: other - oil
Case No.: Not reported
Material FA: Other

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

RCRA NonGen / NLR:

Date Form Received by Agency:	20070101
Handler Name:	MORGAN OIL TERMINALS CORP
Handler Address:	200 MORGAN AVE
Handler City,State,Zip:	BROOKLYN, NY 11237-1014
EPA ID:	NYD074359472
Contact Name:	Not reported
Contact Address:	21ST ST NYSDEC
Contact City,State,Zip:	LONG ISLAND CITY, NY 11101
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	21ST ST NYSDEC
Mailing City,State,Zip:	LONG ISLAND CITY, NY 11101
Owner Name:	UNKNOWN
Owner Type:	Private
Operator Name:	UNKNOWN
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNKNOWN
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, NY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNKNOWN
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, NY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNKNOWN
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, NY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19990708
Handler Name: MORGAN OIL TERMINALS CORP
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: MORGAN OIL TERMINALS CORP
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: MORGAN OIL TERMINALS CORP
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Electronic Manifest Broker: Not reported

Receive Date: 19940412
Handler Name: MORGAN OIL TERMINALS CORP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960701
Handler Name: NYSDEC - MORGAN TERMINAL SITE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110009468290

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000889835

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Registry ID:	110009468290
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009468290
Name:	MORGAN OIL TERMINALS CORP
Address:	200 MORGAN AVE
City,State,Zip:	BROOKLYN, NY 11237

NY MANIFEST:

Name:	NYSDEC
Address:	200 MORGAN AVE
City,State,Zip:	BROOKLYN, NY 11237-1014
Country:	USA
EPA ID:	NYD074359472
Facility Status:	Not reported
Location Address 1:	47-40 21ST STREET
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	LONG ISLAND CITY
Location State:	NY
Location Zip:	11101
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD074359472
Mailing Name:	NYSDEC
Mailing Contact:	JOSEPH SCEPPA
Mailing Address 1:	47-40 21ST STREET
Mailing Address 2:	Not reported
Mailing City:	LONG ISLAND CITY
Mailing State:	NY
Mailing Zip:	11101
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7184824933

U174 **CAPITAL AUTO SALVAGE & SALES, INC.** **NY AST** **A100295036**
East **4600 METROPOLITAN AVENUE** **N/A**
1/8-1/4 **RIDGEWOOD, NY 11385**
0.241 mi.
1273 ft. **Site 4 of 5 in cluster U**

Relative:
Lower

Actual:
11 ft.

AST:

Name:	CAPITAL AUTO SALVAGE & SALES, INC.
Address:	4600 METROPOLITAN AVENUE
City,State,Zip:	RIDGEWOOD, NY 11385
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-608207
Program Type:	PBS
UTM X:	590949.23371
UTM Y:	4507536.98132
Expiration Date:	12/15/2024
Site Type:	Other

Affiliation Records:

Site Id:	30059

CAPITAL AUTO SALVAGE & SALES, INC. (Continued) **A100295036**

Affiliation Type:	Mail Contact
Company Name:	4600 METRO CORP.
Contact Type:	Not reported
Contact Name:	PAUL MACDONNELL
Address1:	4600 METROPOLITAN AVENUE
Address2:	Not reported
City:	RIDGEWOOD
State:	NY
Zip Code:	11385
Country Code:	001
Phone:	(718) 381-9090
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-03-16

Site Id:	30059
Affiliation Type:	Facility Operator
Company Name:	CAPITAL AUTO SALVAGE & SALES INC
Contact Type:	Not reported
Contact Name:	PAUL MACDONNELL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 381-9090
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-03-16

Site Id:	30059
Affiliation Type:	Emergency Contact
Company Name:	4600 METRO CORP
Contact Type:	Not reported
Contact Name:	PAUL MACDONNELL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 617-0180
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-03-16

Site Id:	30059
Affiliation Type:	Facility Owner
Company Name:	4600 METRO CORP.
Contact Type:	CONSULTANT
Contact Name:	NORMAN TEITLER
Address1:	4600 METROPOLITAN AVE
Address2:	Not reported

CAPITAL AUTO SALVAGE & SALES, INC. (Continued) **A100295036**

City:	RIDGEWOOD
State:	NY
Zip Code:	11385
Country Code:	001
Phone:	(718) 381-9090
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2019-11-05

Tank Info:

Tank Number:	001
Tank Id:	64892
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

D00 - Pipe Type - No Piping
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Fiberglass Coated Steel
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	55
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	08/10/2009
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

Tank Number:	002
Tank Id:	65381
Material Code:	2642
Common Name of Substance:	Used Oil (Heating, On-Site Consumption)

Equipment Records:

J00 - Dispenser - None
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

CAPITAL AUTO SALVAGE & SALES, INC. (Continued) **A100295036**

G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Location: Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type: Fiberglass Reinforced Plastic
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 08/10/2009
Register: True
Modified By: NRLOMBAR
Last Modified: 04/14/2017
Material Name: used oil (heating, on-site consumption)

Tank Number: 003
Tank Id: 254934

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
E00 - Piping Secondary Containment - None

Tank Location: Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type: Fiberglass Reinforced Plastic
Tank Status: In Service
Pipe Model: Not reported
Install Date: 12/15/2014
Capacity Gallons: 200
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: NTFREEMA
Last Modified: 04/14/2017
Material Name: waste oil/used oil

U175 **METRO AUTO SALVAGE** **NY SWF/LF** **S106015178**
East **4600 METROPOLITAN AVE** **NY CBS** **N/A**
1/8-1/4 **RIDGEWOOD, NY 11385** **NY AST**
0.241 mi. **NY Spills**
1273 ft. **Site 5 of 5 in cluster U** **NY SPDES**

Relative:
Lower

Actual:
11 ft.

SWF/LF:

Name:	CAPITAL AUTO SALVAGE & SALES INC
Address:	4600 METROPOLITAN AVE
City,State,Zip:	QUEENS, NY 11385
Flag:	INACTIVE
Region Code:	2
Phone Number:	7183819090
Owner Name:	CAPITAL AUTO SALVAGE & SALES; INC.
Owner Type:	Private
Owner Address:	4600 Metropolitan Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Ridgewood, NY 11385
Owner Email:	JAMESMACDIESEL@GMAIL.COM
Owner Phone:	7183819090
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling Facility
Activity Number:	[7117789]
Active:	No
East Coordinate:	590971
North Coordinate:	4507550
Accuracy Code:	4.2 - Utilization of GIS and existing spatial data
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	CAPITAL AUTO SALVAGE & SALES; INC.
Operator Type:	Not reported
Laste Date:	Not reported

Name:	METRO AUTO SALVAGE & SALES INC
Address:	4600 METROPOLITAN AVE
City,State,Zip:	RIDGEWOOD, NY 11385
Flag:	INACTIVE
Region Code:	2
Phone Number:	7183819090
Owner Name:	Metro Auto Salvage & Sales Inc
Owner Type:	Private
Owner Address:	4600 Metropolitan Ave
Owner Addr2:	Not reported
Owner City,St,Zip:	Ridgewood, NY 11385
Owner Email:	Not reported
Owner Phone:	7182578584
Contact Name:	Vincent Marino
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	NY
Contact Email:	Parts@MetroAutoSalvage.com

METRO AUTO SALVAGE (Continued) **S106015178**

Contact Phone: 7183819090
Activity Desc: Vehicle Dismantling Facility
Activity Number: [7097170]
Active: No
East Coordinate: 590900
North Coordinate: 4507549
Accuracy Code: Not reported
Regulatory Status: Not reported
Waste Type: Not reported
Authorization #: Not reported
Authorization Date: Not reported
Expiration Date: Not reported
Operator Name: Not reported
Operator Type: Not reported
Laste Date: Not reported

Name: CAPITAL AUTO SALVAGE & SALES INC
Address: 4600 METROPOLITAN AVE
City,State,Zip: QUEENS, NY 11385
Flag: ACTIVE
Region Code: 2
Phone Number: 7183819090
Owner Name: CAPITAL AUTO SALVAGE & SALES; INC.
Owner Type: Private
Owner Address: 4600 Metropolitan Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Ridgewood, NY 11385
Owner Email: JAMESMACDIESEL@GMAIL.COM
Owner Phone: 7183819090
Contact Name: Not reported
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: VDF - large - registration
Activity Number: [41V50004]
Active: Yes
East Coordinate: 590971
North Coordinate: 4507550
Accuracy Code: 4.2 - Utilization of GIS and existing spatial data
Regulatory Status: Registration
Waste Type: End of Life Vehicles;Lead-acid Batteries;Mix Coolant/Engine Oil/Washing Fluid/Water;Engine Coolant/Antifreeze
Authorization #: 41V50004
Authorization Date: 11/15/2019
Expiration Date: 11/14/2024
Operator Name: CAPITAL AUTO SALVAGE & SALES; INC.
Operator Type: Not reported
Laste Date: Not reported

CBS:
Name: METRO AUTO SAVAGE & SALES, INC.
Address: 4600 METROPOLITAN AVE
City,State,Zip: RIDGEWOOD, NY 11368
CBS Number: 2-000496
Program Type: CBS

METRO AUTO SALVAGE (Continued) **S106015178**

Facility Status: Unregulated/Closed
Expiration Date: Not reported
Dec Region: 2
UTMX: Not reported
UTMY: Not reported

AST:
Name: METRO AUTO SAVAGE & SALES, INC.
Address: 4600 METROPOLITAN AVE
City,State,Zip: RIDGEWOOD, NY 11368
Region: STATE
DEC Region: 2
Site Status: Unregulated/Closed
Facility Id: 2-000496
Program Type: CBS
UTM X: Not reported
UTM Y: Not reported
Expiration Date: N/A
Site Type: Other

Tank Info:

Tank Number: 01
Tank Id: 237146
Tank Location: Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type: Plastic
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 06/10/2009
Capacity Gallons: 250
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 04/25/2011
Register: True
Modified By: KAKYER
Last Modified: 08/30/2011
Material Name: Not reported

SPILLS:
Name: METRO AUTO SALVAGE
Address: 4600 METROPOLITAN AVE
City,State,Zip: RIDGEWOOD, NY
Spill Number/Closed Date: 0330014 / 2006-01-05
Facility ID: 0330014
Facility Type: ER
DER Facility ID: 215176
Site ID: 263989
DEC Region: 2
Spill Cause: Deliberate
Spill Class: C3
SWIS: 4101
Spill Date: 2003-06-17
Investigator: EXHAMPST
Referred To: Not reported
Reported to Dept: 2003-06-18

METRO AUTO SALVAGE (Continued) **S106015178**

CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Police Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2003-06-18
Spill Record Last Update:	2006-01-05
Spiller Name:	SAME
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEMEO 12/29/05 Transferred to E. Hampston via Spill Initiative. Contaced DLE caller who reported spill seeking update on referal to other Department representatives or issuance of tickets. 1/5/05 Lt. Fitzpatrick (DLE) indicated that the site was visited in conjunction with NYPD Auto Crimes group. He returned to site with ECO and tickets were issued. Consent Order R2-20030820-221 signed on 8/21/03. Close based on implementation of Order and regulation by DSHM. "
Remarks:	"Location is a junk yard. Various unpermitted discharges of automotive waste fluids found on ground surface at above location."

All Materials:

Site ID:	263989
Operable Unit ID:	881432
Operable Unit:	01
Material ID:	496514
Material Code:	0005A
Material Name:	auto waste fluids
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPDES:

Name:	METRO AUTO SALVAGE
Address:	4600 METROPOLITAN AVE
City,State,Zip:	RIDGEWOOD, NY 11385
Permit Number:	NYR00E042
State-Region:	02
Expiration Date:	03/31/2012
Current Major Minor Status:	Minor
Primary Facility SIC Code:	5015
State Water Body Name:	ENGLISH KILLS
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported

METRO AUTO SALVAGE (Continued) **S106015178**

UDF1:	Not reported
Lat/Long:	+40.713889 / -73.923056
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY081
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	METRO AUTO SALVAGE AND SALES INC
Non-Gov Permit Street Address:	METRO AUTO SALVAGE AND SALES INC
Non-Gov Permit Supplemental Location:	4600 METROPLOITAN AVE
Non-Gov Permit City:	RIDGEWOOD
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11385
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	METRO AUTO SALVAGE AND SALES INC
Non-Gov Facility Street Address:	METRO AUTO SALVAGE AND SALES INC
Non-Gov Facility Supplemental Location:	4600 METROPOLITAN AVE
Non-Gov Facility City:	RIDGEWOOD
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11385
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	METRO AUTO SALVAGE
Address:	4600 METROPOLITAN AVE
City,State,Zip:	RIDGEWOOD, NY 11385
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY081
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	METRO AUTO SALVAGE & SALES INC
Non-Gov Permit Street Address:	4600 METROPOLITAN AVE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	RIDGEWOOD
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11385
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	METRO AUTO SALVAGE AND SALES INC
Non-Gov Facility Street Address:	METRO AUTO SALVAGE AND SALES INC
Non-Gov Facility Supplemental Location:	4600 METROPOLITAN AVE
Non-Gov Facility City:	RIDGEWOOD
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11385
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported

METRO AUTO SALVAGE (Continued) **S106015178**

Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	METRO AUTO SALVAGE
Address:	4600 METROPOLITAN AVE
City,State,Zip:	RIDGEWOOD, NY 11385
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY081
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	METRO AUTO SALVAGE AND SALES INC
Non-Gov Facility Street Address:	METRO AUTO SALVAGE AND SALES INC
Non-Gov Facility Supplemental Location:	4600 METROPOLITAN AVE
Non-Gov Facility City:	RIDGEWOOD
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11385
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

176
ESE
1/8-1/4
0.241 mi.
1275 ft.

ALLOCCO RECYCLING (606 MESEROLE) **NY SWRCY** **S121133113**
606 MESEROLE STREET **N/A**
BROOKLYN, NY 11237

Relative:
Higher

Actual:
14 ft.

SWRCY:

Name:	ALLOCCO RECYCLING (606 MESEROLE)
Address:	606 MESEROLE STREET
City,State,Zip:	BROOKLYN, NY 11237
Region:	2
Facility Address 2:	Not reported
Phone Number:	7183493094
Owner Type:	Private
Owner Name:	Michael ALLOCCO
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	MIKE@alloccorecycling.com
Owner Phone:	7183493097
Contact Name:	Michael Allocco
Contact Address:	540 Kingsland Avenue
Contact Address 2:	Not reported

ALLOCCO RECYCLING (606 MESEROLE) (Continued) **S121133113**

Contact City,St,Zip:	Brooklyn, NY 11222
Contact Email:	Not reported
Contact Phone:	7183493094
Activity Desc:	RHRF - registration
Activity Number:	[24MH2]
Active:	Yes
East Coordinate:	590900
North Coordinate:	4507350
Accuracy Code:	1 - No accuracy stated
Regulatory Status:	Registration
Permit #:	Not reported
Auth. Date:	Not reported
Expiration Date:	Not reported
Waste Types:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Last Date:	10/3/2017

AA177 **RANDOLPH ASSOCIATES** **NY UST** **U000400166**
SE **165 RANDOLPH STREET** **NY Spills** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.248 mi.
1307 ft. **Site 1 of 3 in cluster AA**

Relative:
Higher

Actual:
14 ft.

UST:

Name:	RANDOLPH ASSOCIATES
Address:	165 RANDOLPH STREET
City,State,Zip:	BROOKLYN, NY 11237
Id/Status:	2-258296 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590738.53243
UTM Y:	4507088.55183
Site Type:	Manufacturing (Other than Chemical)/Processing

Affiliation Records:

Site Id:	10692
Affiliation Type:	Facility Owner
Company Name:	RANDOLPH ASSOCIATES
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	60 EAST 56TH STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10022
Country Code:	001
Phone:	(212) 751-4627
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2004-08-30

Site Id:	10692
Affiliation Type:	Mail Contact
Company Name:	MID-COUNTY MECHANICAL INC

RANDOLPH ASSOCIATES (Continued) **U000400166**

Contact Type:	Not reported
Contact Name:	KEN KASPER
Address1:	121-06 89TH AVENUE
Address2:	Not reported
City:	RICHMOND HILL
State:	NY
Zip Code:	11418
Country Code:	001
Phone:	(718) 847-1800
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2004-08-30

Site Id:	10692
Affiliation Type:	Facility Operator
Company Name:	RANDOLPH ASSOCIATES
Contact Type:	Not reported
Contact Name:	RANDOLPH ASSOCIATES
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 751-4627
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2004-08-30

Site Id:	10692
Affiliation Type:	Emergency Contact
Company Name:	RANDOLPH ASSOCIATES
Contact Type:	Not reported
Contact Name:	RANDOLPH ASSOCIATES
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 751-4627
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2004-08-30

Tank Info:

Tank Number:	001
Tank ID:	13287
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	3000
Install Date:	12/01/1949
Date Tank Closed:	07/01/2004

RANDOLPH ASSOCIATES (Continued) **U000400166**

Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	03/20/2003
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

I05 - Overfill - Vent Whistle
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
L09 - Piping Leak Detection - Exempt Suction Piping
H00 - Tank Leak Detection - None

SPILLS:

Name:	165 RANDOLPH ST ASSOC
Address:	165 RANDOLPH ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9110290 / 1995-03-30
Facility ID:	9110290
Facility Type:	ER
DER Facility ID:	65478
Site ID:	68801
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	1991-12-31
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	1991-12-31
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	1995-03-30
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-01-07
Spill Record Last Update:	1995-03-30
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported

RANDOLPH ASSOCIATES (Continued) **U000400166**

Spiller Company: 001
Contact Name: Not reported
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG "
Remarks: ""

All Materials:
Site ID: 68801
Operable Unit ID: 963887
Operable Unit: 01
Material ID: 418839
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 6.00
Units: G
Recovered: .00
Oxygenate: Not reported

Y178 **NEW YORK TELEPHONE CO** **RCRA NonGen / NLR** **1000136852**
NNW **15 REWE ST** **FINDS** **NYD980755680**
1/8-1/4 **BROOKLYN, NY 11211** **ECHO**
0.249 mi. **NY MANIFEST**
1313 ft. **Site 3 of 3 in cluster Y**

Relative: **Lower**
Actual: **4 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 20070101
Handler Name: NEW YORK TELEPHONE CO
Handler Address: 15 REWE ST
Handler City,State,Zip: BROOKLYN, NY 11211-1707
EPA ID: NYD980755680
Contact Name: Not reported
Contact Address: PENN PLZ ROOM 1650
Contact City,State,Zip: NEW YORK, NY 10121
Contact Telephone: Not reported
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 02
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: NY
State District: NYSDEC R2
Mailing Address: PENN PLZ ROOM 1650
Mailing City,State,Zip: NEW YORK, NY 10121
Owner Name: NEW YORK TELEPHONE CO
Owner Type: Private
Operator Name: NEW YORK TELEPHONE CO
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No

NEW YORK TELEPHONE CO (Continued) **1000136852**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	NONE
Waste Description:	Not Defined

NEW YORK TELEPHONE CO (Continued) **1000136852**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NEW YORK TELEPHONE CO
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NEW YORK TELEPHONE CO
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NEW YORK TELEPHONE CO
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990708
Handler Name: NEW YORK TELEPHONE CO	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060101
Handler Name: NEW YORK TELEPHONE CO	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No

NEW YORK TELEPHONE CO (Continued) **1000136852**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: NEW YORK TELEPHONE CO
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19830523
Handler Name: NEW YORK TELEPHONE CO
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19910712
Actual Return to Compliance Date: 19910712
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported

NEW YORK TELEPHONE CO (Continued) **1000136852**

Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19910712
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYDEC
Evaluation Responsible Sub-Organization: HA
Actual Return to Compliance Date: 19910712
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

FINDS:
Registry ID: 110004389714

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000136852
Registry ID: 110004389714

NEW YORK TELEPHONE CO (Continued) **1000136852**

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004389714
Name: NEW YORK TELEPHONE CO
Address: 15 REWE ST
City,State,Zip: BROOKLYN, NY 11211

NY MANIFEST:
Name: NYNEX
Address: 15 REWE ST
City,State,Zip: BROOKLYN, NY 11211-1707
Country: USA
EPA ID: NYD980755680
Facility Status: Not reported
Location Address 1: 222 TEALL AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: SYRACUSE
Location State: NY
Location Zip: 13217
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD980755680
Mailing Name: NYNEX
Mailing Contact: B WARREN
Mailing Address 1: 441 9TH AVE-RM 501
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10001
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2125027694

AA179 **CAL OSTLUND INC** **NY LTANKS** **1000126948**
SE **185 RANDOLPH ST** **RCRA NonGen / NLR** **NYD001341908**
1/4-1/2 **BROOKLYN, NY 11237** **FINDS**
0.253 mi. **ECHO**
1336 ft. **Site 2 of 3 in cluster AA** **NY MANIFEST**

Relative:
Higher

Actual:
14 ft.

LTANKS:
Name: X
Address: 185 RANDOLPH STREET
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 0212548 / 2005-12-07
Facility ID: 0212548
Site ID: 120041
Spill Date: 2003-03-20
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: B3
Cleanup Ceased: Not reported
SWIS: 2401
Investigator: rmpiper
Referred To: Not reported
Reported to Dept: 2003-03-20
CID: 422

CAL OSTLUND INC (Continued) **1000126948**

Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2003-03-20
Spill Record Last Update:	2005-12-07
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller County:	999
Spiller Contact:	ISSAC MUNGRA
Spiller Phone:	(718) 857-9800
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	104250
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SAWYER 3/20/03, AUSTIN, DDO - TANK FAILED LOCATOR PLUS TEST (PASS/FAIL) - SENT OUT TTF LETTER 1/7/04-Vought-Spill transferred from Vought to Austin. 01/27/04 - Sawyer - Spill transferred from Austin to Sawyer. 11/25/05- DEc Piper sent out another ttf letter to Ken Kasper Mid-County Mechanical Inc. 121-06 89th Ave, Richmond hill, NY 11418 12/7/05- DEC Piper recieved sufficient evidence to close spill. Minor repairs made to tank, specifically vent line. No contaminated soil found during uncovering of top of tank. See e-docs if warranted."
Remarks:	""

All TTF:

Facility ID:	0212548
Spill Number:	0212548
Spill Tank Test:	1528116
Site ID:	120041
Tank Number:	Not reported
Tank Size:	3000
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	99
Test Method 2:	Alternate Test per former 613.5(a)(2)(v)
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	120041
Operable Unit ID:	866004
Operable Unit:	01
Material ID:	512280
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported

CAL OSTLUND INC (Continued) **1000126948**

Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

RCRA NonGen / NLR:

Date Form Received by Agency:		20070101
Handler Name:	CAL OSTLUND INC	
Handler Address:		185 RANDOLPH ST
Handler City,State,Zip:		BROOKLYN, NY 11237-1306
EPA ID:		NYD001341908
Contact Name:		Not reported
Contact Address:		PO BOX 412
Contact City,State,Zip:		BROOKLYN, NY 11237
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		PO BOX 412
Mailing City,State,Zip:		BROOKLYN, NY 11237
Owner Name:		CAL OSTLUND
Owner Type:		Private
Operator Name:		CAL OSTLUND
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported

CAL OSTLUND INC (Continued) **1000126948**

2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F005
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,

CAL OSTLUND INC (Continued) **1000126948**

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CAL OSTLUND
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CAL OSTLUND
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CAL OSTLUND
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990708
Handler Name: CAL OSTLUND INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

CAL OSTLUND INC (Continued) **1000126948**

Receive Date: 20060101
Handler Name: CAL OSTLUND INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: CAL OSTLUND INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19891214
Handler Name: CAL OSTLUND INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110004333908

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource

CAL OSTLUND INC (Continued) **1000126948**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000126948
Registry ID:	110004333908
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110004333908
Name:	CAL OSTLUND INC
Address:	185 RANDOLPH STREET
City,State,Zip:	BROOKLYN, NY 11237

NY MANIFEST:

Name:	CAL OSTLUND INC
Address:	185 RANDOLPH ST
City,State,Zip:	BROOKLYN, NY 11237-1306
Country:	USA
EPA ID:	NYD001341908
Facility Status:	Not reported
Location Address 1:	185 RANDOLPH ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD001341908
Mailing Name:	CAL OSTLUND INC
Mailing Contact:	THOMAS ROWINSKI
Mailing Address 1:	185 RANDOLPH STREET
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7184566483

AB180 **FRITO LAY** **NY ENG CONTROLS** **S109416391**
WSW **202-218 MORGAN AVENUE** **NY INST CONTROL** **N/A**
1/4-1/2 **BROOKLYN, NY 11237** **NY BROWNFIELDS**
0.262 mi.
1386 ft. **Site 1 of 2 in cluster AB**

Relative:
Lower

Actual:
13 ft.

ENG CONTROLS:

Name:	FRITO LAY
Address:	202-218 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Site Code:	407689
HW Code:	C224133
Control Code:	13
Control Type:	ENG
Date Record Added:	10/22/2013
Date Rec Updated:	05/31/2017
Updated By:	CHPOST
Site Description:	"Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site. Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."
Env Problem:	"The remedial plan for the site was implemented such that the site no longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals, such as lead and mercury, in soil throughout the site."
Health Problem:	"The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."
Dump:	False

FRITO LAY (Continued) **S109416391**

Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2008-12-11 13:40:00
Record Upd:	2013-09-20 14:10:00
Updated By:	ldennist
Own Op:	Document Repository
Sub Type:	P03
Owner Name:	Patricia Sacco, Library Information Supervisor
Owner Company:	Brooklyn Public Library Bushwick Branch
Owner Address:	340 Bushwick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11206
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	Keith Massa
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
Own Op:	1
Sub Type:	P03
Owner Name:	Cedric Robinson
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
HW Code:	C224133
Waste Type:	POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	VINYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	DICHLOROETHYLENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	ARSENIC
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	MERCURY

FRITO LAY (Continued) **S109416391**

Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	1,1 Dichloroethene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	ER1609278
Cross Ref Type Code:	01
Cross Ref Type:	Spill No.
Record Added Date:	2018-04-13 15:49:00
Record Updated:	2018-04-13 15:49:00
Updated By:	CHPOST
Crossref ID:	2013000399904
Cross Ref Type Code:	25
Cross Ref Type:	County Recording Identifier
Record Added Date:	2013-10-11 11:05:00
Record Updated:	2013-10-11 11:05:00
Updated By:	KPSARNOW
Crossref ID:	C224133
Cross Ref Type Code:	22
Cross Ref Type:	BCP Site ID
Record Added Date:	2013-10-28 11:27:00
Record Updated:	2013-10-28 11:27:00
Updated By:	JEBROWN
Crossref ID:	A2-0622-0709
Cross Ref Type Code:	23
Cross Ref Type:	Agreement/Consent Order Number
Record Added Date:	2013-10-28 11:27:00
Record Updated:	2013-10-28 11:27:00
Updated By:	JEBROWN
Crossref ID:	08/20/2009
Cross Ref Type Code:	26
Cross Ref Type:	Agreement/Consent Order Date
Record Added Date:	2013-10-28 11:26:00
Record Updated:	2013-10-28 11:26:00
Updated By:	JEBROWN
Name:	FRITO LAY
Address:	202-218 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Site Code:	407689
HW Code:	C224133
Control Code:	22
Control Type:	ENG
Date Record Added:	10/22/2013
Date Rec Updated:	05/31/2017
Updated By:	CHPOST
Site Description:	"Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To

FRITO LAY (Continued) **S109416391**

the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site. Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."

Env Problem:	"The remedial plan for the site was implemented such that the site no longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals, such as lead and mercury, in soil throughout the site."
Health Problem:	"The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2008-12-11 13:40:00
Record Upd:	2013-09-20 14:10:00
Updated By:	ldennist
Own Op:	Document Repository
Sub Type:	P03
Owner Name:	Patricia Sacco, Library Information Supervisor
Owner Company:	Brooklyn Public Library Bushwick Branch
Owner Address:	340 Bushwick Avenue
Owner Addr2:	Not reported

FRITO LAY (Continued) **S109416391**

Owner City,St,Zip:	Brooklyn, NY 11206
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	Keith Massa
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
Own Op:	1
Sub Type:	P03
Owner Name:	Cedric Robinson
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
HW Code:	C224133
Waste Type:	POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	VINYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	DICHLOROETHYLENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	ARSENIC
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	1,1 Dichloroethene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	ER1609278
Cross Ref Type Code:	01
Cross Ref Type:	Spill No.

FRITO LAY (Continued) **S109416391**

Record Added Date:	2018-04-13 15:49:00
Record Updated:	2018-04-13 15:49:00
Updated By:	CHPOST
Crossref ID:	2013000399904
Cross Ref Type Code:	25
Cross Ref Type:	County Recording Identifier
Record Added Date:	2013-10-11 11:05:00
Record Updated:	2013-10-11 11:05:00
Updated By:	KPSARNOW
Crossref ID:	C224133
Cross Ref Type Code:	22
Cross Ref Type:	BCP Site ID
Record Added Date:	2013-10-28 11:27:00
Record Updated:	2013-10-28 11:27:00
Updated By:	JEBROWN
Crossref ID:	A2-0622-0709
Cross Ref Type Code:	23
Cross Ref Type:	Agreement/Consent Order Number
Record Added Date:	2013-10-28 11:27:00
Record Updated:	2013-10-28 11:27:00
Updated By:	JEBROWN
Crossref ID:	08/20/2009
Cross Ref Type Code:	26
Cross Ref Type:	Agreement/Consent Order Date
Record Added Date:	2013-10-28 11:26:00
Record Updated:	2013-10-28 11:26:00
Updated By:	JEBROWN

Name:	FRITO LAY
Address:	202-218 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Site Code:	407689
HW Code:	C224133
Control Code:	18
Control Type:	ENG
Date Record Added:	10/22/2013
Date Rec Updated:	05/31/2017
Updated By:	CHPOST
Site Description:	"Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site.

FRITO LAY (Continued) **S109416391**

	Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."
Env Problem:	"The remedial plan for the site was implemented such that the site no longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals, such as lead and mercury, in soil throughout the site."
Health Problem:	"The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2008-12-11 13:40:00
Record Upd:	2013-09-20 14:10:00
Updated By:	ldennist
Own Op:	Document Repository
Sub Type:	P03
Owner Name:	Patricia Sacco, Library Information Supervisor
Owner Company:	Brooklyn Public Library Bushwick Branch
Owner Address:	340 Bushwick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11206
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	Keith Massa
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
Own Op:	1
Sub Type:	P03
Owner Name:	Cedric Robinson
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099

FRITO LAY (Continued) **S109416391**

Owner Country:	United States of America
HW Code:	C224133
Waste Type:	POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	VINYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	DICHLOROETHYLENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	ARSENIC
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	1,1 Dichloroethene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	ER1609278
Cross Ref Type Code:	01
Cross Ref Type:	Spill No.
Record Added Date:	2018-04-13 15:49:00
Record Updated:	2018-04-13 15:49:00
Updated By:	CHPOST
Crossref ID:	2013000399904
Cross Ref Type Code:	25
Cross Ref Type:	County Recording Identifier
Record Added Date:	2013-10-11 11:05:00
Record Updated:	2013-10-11 11:05:00
Updated By:	KPSARNOW
Crossref ID:	C224133
Cross Ref Type Code:	22
Cross Ref Type:	BCP Site ID
Record Added Date:	2013-10-28 11:27:00
Record Updated:	2013-10-28 11:27:00
Updated By:	JEBROWN
Crossref ID:	A2-0622-0709
Cross Ref Type Code:	23

FRITO LAY (Continued) **S109416391**

Cross Ref Type:	Agreement/Consent Order Number
Record Added Date:	2013-10-28 11:27:00
Record Updated:	2013-10-28 11:27:00
Updated By:	JEBROWN
Crossref ID:	08/20/2009
Cross Ref Type Code:	26
Cross Ref Type:	Agreement/Consent Order Date
Record Added Date:	2013-10-28 11:26:00
Record Updated:	2013-10-28 11:26:00
Updated By:	JEBROWN
Name:	FRITO LAY
Address:	202-218 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Site Code:	407689
HW Code:	C224133
Control Code:	15
Control Type:	ENG
Date Record Added:	10/22/2013
Date Rec Updated:	05/31/2017
Updated By:	CHPOST
Site Description:	"Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site. Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."
Env Problem:	"The remedial plan for the site was implemented such that the site no longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals, such as lead and mercury, in soil throughout the site."
Health Problem:	"The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the

FRITO LAY (Continued) **S109416391**

movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."

Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2008-12-11 13:40:00
Record Upd:	2013-09-20 14:10:00
Updated By:	ldennist
Own Op:	Document Repository
Sub Type:	P03
Owner Name:	Patricia Sacco, Library Information Supervisor
Owner Company:	Brooklyn Public Library Bushwick Branch
Owner Address:	340 Bushwick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11206
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	Keith Massa
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
Own Op:	1
Sub Type:	P03
Owner Name:	Cedric Robinson
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
HW Code:	C224133
Waste Type:	POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	VINYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	DICHLOROETHYLENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported

FRITO LAY (Continued) **S109416391**

HW Code:	C224133
Waste Type:	ARSENIC
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	1,1 Dichloroethene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	ER1609278
Cross Ref Type Code:	01
Cross Ref Type:	Spill No.
Record Added Date:	2018-04-13 15:49:00
Record Updated:	2018-04-13 15:49:00
Updated By:	CHPOST
Crossref ID:	2013000399904
Cross Ref Type Code:	25
Cross Ref Type:	County Recording Identifier
Record Added Date:	2013-10-11 11:05:00
Record Updated:	2013-10-11 11:05:00
Updated By:	KPSARNOW
Crossref ID:	C224133
Cross Ref Type Code:	22
Cross Ref Type:	BCP Site ID
Record Added Date:	2013-10-28 11:27:00
Record Updated:	2013-10-28 11:27:00
Updated By:	JEBROWN
Crossref ID:	A2-0622-0709
Cross Ref Type Code:	23
Cross Ref Type:	Agreement/Consent Order Number
Record Added Date:	2013-10-28 11:27:00
Record Updated:	2013-10-28 11:27:00
Updated By:	JEBROWN
Crossref ID:	08/20/2009
Cross Ref Type Code:	26
Cross Ref Type:	Agreement/Consent Order Date
Record Added Date:	2013-10-28 11:26:00
Record Updated:	2013-10-28 11:26:00
Updated By:	JEBROWN

INST CONTROL:

Name:	FRITO LAY
Address:	202-218 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Site Code:	407689
Control Name:	Landuse Restriction

FRITO LAY (Continued) **S109416391**

HW Code: C224133
Control Code: 25
Control Type: INST
Dt record added: 10/22/2013
Dt rec updated: 05/31/2017
Updated By: CHPOST
Site Code: 407689
Site Description: "Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site. Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."
Env Problem: "The remedial plan for the site was implemented such that the site no longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals, such as lead and mercury, in soil throughout the site."
Health Problem: "The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."
Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported

FRITO LAY (Continued) **S109416391**

Record Add: 2008-12-11 13:40:00
Record Upd: 2013-09-20 14:10:00
Updated By: ldennist
Own Op: Document Repository
Sub Type: P03
Owner Name: Patricia Sacco, Library Information Supervisor
Owner Company: Brooklyn Public Library Bushwick Branch
Owner Address: 340 Bushwick Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11206
Owner Country: United States of America
Own Op: 6
Sub Type: P03
Owner Name: Keith Massa
Owner Company: Rolling Frito-Lay Sales, LP
Owner Address: 7701 Legacy Drive
Owner Addr2: Not reported
Owner City,St,Zip: Plano, TX 75024-4099
Owner Country: United States of America
Own Op: 1
Sub Type: P03
Owner Name: Cedric Robinson
Owner Company: Rolling Frito-Lay Sales, LP
Owner Address: 7701 Legacy Drive
Owner Addr2: Not reported
Owner City,St,Zip: Plano, TX 75024-4099
Owner Country: United States of America
HW Code: C224133
Waste Type: POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: ARSENIC
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: tetrachloroethene (PCE)

FRITO LAY (Continued) **S109416391**

Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: ER1609278
Cross Ref Type Code: 01
Cross Ref Type: Spill No.
Record Added Date: 2018-04-13 15:49:00
Record Updated: 2018-04-13 15:49:00
Updated By: CHPOST
Crossref ID: 2013000399904
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2013-10-11 11:05:00
Record Updated: 2013-10-11 11:05:00
Updated By: KPSARNOW
Crossref ID: C224133
Cross Ref Type Code: 22
Cross Ref Type: BCP Site ID
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: A2-0622-0709
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: 08/20/2009
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 2013-10-28 11:26:00
Record Updated: 2013-10-28 11:26:00
Updated By: JEBROWN

Name: FRITO LAY
Address: 202-218 MORGAN AVENUE
City,State,Zip: BROOKLYN, NY 11237
Site Code: 407689
Control Name: Soil Management Plan
HW Code: C224133
Control Code: 14
Control Type: INST
Dt record added: 10/22/2013
Dt rec updated: 05/31/2017
Updated By: CHPOST
Site Code: 407689
Site Description: "Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently

FRITO LAY (Continued) **S109416391**

vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site. Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."

Env Problem: "The remedial plan for the site was implemented such that the site no longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals, such as lead and mercury, in soil throughout the site."

Health Problem: "The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2008-12-11 13:40:00
Record Upd: 2013-09-20 14:10:00
Updated By: ldennist
Own Op: Document Repository
Sub Type: P03
Owner Name: Patricia Sacco, Library Information Supervisor
Owner Company: Brooklyn Public Library Bushwick Branch
Owner Address: 340 Bushwick Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11206
Owner Country: United States of America
Own Op: 6
Sub Type: P03
Owner Name: Keith Massa
Owner Company: Rolling Frito-Lay Sales, LP

FRITO LAY (Continued) **S109416391**

Owner Address: 7701 Legacy Drive
Owner Addr2: Not reported
Owner City,St,Zip: Plano, TX 75024-4099
Owner Country: United States of America
Own Op: 1
Sub Type: P03
Owner Name: Cedric Robinson
Owner Company: Rolling Frito-Lay Sales, LP
Owner Address: 7701 Legacy Drive
Owner Addr2: Not reported
Owner City,St,Zip: Plano, TX 75024-4099
Owner Country: United States of America
HW Code: C224133
Waste Type: POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: ARSENIC
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: ER1609278
Cross Ref Type Code: 01
Cross Ref Type: Spill No.
Record Added Date: 2018-04-13 15:49:00
Record Updated: 2018-04-13 15:49:00
Updated By: CHPOST
Crossref ID: 2013000399904
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier

FRITO LAY (Continued) **S109416391**

Record Added Date: 2013-10-11 11:05:00
Record Updated: 2013-10-11 11:05:00
Updated By: KPSARNOW
Crossref ID: C224133
Cross Ref Type Code: 22
Cross Ref Type: BCP Site ID
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: A2-0622-0709
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: 08/20/2009
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 2013-10-28 11:26:00
Record Updated: 2013-10-28 11:26:00
Updated By: JEBROWN

Name: FRITO LAY
Address: 202-218 MORGAN AVENUE
City,State,Zip: BROOKLYN, NY 11237
Site Code: 407689
Control Name: Monitoring Plan
HW Code: C224133
Control Code: 31
Control Type: INST
Dt record added: 10/22/2013
Dt rec updated: 05/31/2017
Updated By: CHPOST
Site Code: 407689
Site Description: "Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site. Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."
Env Problem: "The remedial plan for the site was implemented such that the site no

FRITO LAY (Continued) **S109416391**

longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals, such as lead and mercury, in soil throughout the site."

Health Problem: "The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2008-12-11 13:40:00
Record Upd: 2013-09-20 14:10:00
Updated By: ldennist
Own Op: Document Repository
Sub Type: P03
Owner Name: Patricia Sacco, Library Information Supervisor
Owner Company: Brooklyn Public Library Bushwick Branch
Owner Address: 340 Bushwick Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11206
Owner Country: United States of America
Own Op: 6
Sub Type: P03
Owner Name: Keith Massa
Owner Company: Rolling Frito-Lay Sales, LP
Owner Address: 7701 Legacy Drive
Owner Addr2: Not reported
Owner City,St,Zip: Plano, TX 75024-4099
Owner Country: United States of America
Own Op: 1
Sub Type: P03
Owner Name: Cedric Robinson
Owner Company: Rolling Frito-Lay Sales, LP
Owner Address: 7701 Legacy Drive
Owner Addr2: Not reported
Owner City,St,Zip: Plano, TX 75024-4099
Owner Country: United States of America
HW Code: C224133
Waste Type: POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity: UNKNOWN

FRITO LAY (Continued) **S109416391**

Waste Code: Not reported
HW Code: C224133
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: ARSENIC
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: ER1609278
Cross Ref Type Code: 01
Cross Ref Type: Spill No.
Record Added Date: 2018-04-13 15:49:00
Record Updated: 2018-04-13 15:49:00
Updated By: CHPOST
Crossref ID: 2013000399904
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2013-10-11 11:05:00
Record Updated: 2013-10-11 11:05:00
Updated By: KPSARNOW
Crossref ID: C224133
Cross Ref Type Code: 22
Cross Ref Type: BCP Site ID
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: A2-0622-0709
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN

FRITO LAY (Continued) **S109416391**

Crossref ID: 08/20/2009
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 2013-10-28 11:26:00
Record Updated: 2013-10-28 11:26:00
Updated By: JEBROWN

Name: FRITO LAY
Address: 202-218 MORGAN AVENUE
City,State,Zip: BROOKLYN, NY 11237
Site Code: 407689
Control Name: Site Management Plan
HW Code: C224133
Control Code: 32
Control Type: INST
Dt record added: 10/22/2013
Dt rec updated: 05/31/2017
Updated By: CHPOST
Site Code: 407689
Site Description: "Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site. Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."
Env Problem: "The remedial plan for the site was implemented such that the site no longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals, such as lead and mercury, in soil throughout the site."
Health Problem: "The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential

FRITO LAY (Continued) **S109416391**

exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2008-12-11 13:40:00
Record Upd: 2013-09-20 14:10:00
Updated By: ldennist
Own Op: Document Repository
Sub Type: P03
Owner Name: Patricia Sacco, Library Information Supervisor
Owner Company: Brooklyn Public Library Bushwick Branch
Owner Address: 340 Bushwick Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11206
Owner Country: United States of America
Own Op: 6
Sub Type: P03
Owner Name: Keith Massa
Owner Company: Rolling Frito-Lay Sales, LP
Owner Address: 7701 Legacy Drive
Owner Addr2: Not reported
Owner City,St,Zip: Plano, TX 75024-4099
Owner Country: United States of America
Own Op: 1
Sub Type: P03
Owner Name: Cedric Robinson
Owner Company: Rolling Frito-Lay Sales, LP
Owner Address: 7701 Legacy Drive
Owner Addr2: Not reported
Owner City,St,Zip: Plano, TX 75024-4099
Owner Country: United States of America
HW Code: C224133
Waste Type: POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: ARSENIC

FRITO LAY (Continued) **S109416391**

Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: ER1609278
Cross Ref Type Code: 01
Cross Ref Type: Spill No.
Record Added Date: 2018-04-13 15:49:00
Record Updated: 2018-04-13 15:49:00
Updated By: CHPOST
Crossref ID: 2013000399904
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2013-10-11 11:05:00
Record Updated: 2013-10-11 11:05:00
Updated By: KPSARNOW
Crossref ID: C224133
Cross Ref Type Code: 22
Cross Ref Type: BCP Site ID
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: A2-0622-0709
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: 08/20/2009
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 2013-10-28 11:26:00
Record Updated: 2013-10-28 11:26:00
Updated By: JEBROWN

Name: FRITO LAY
Address: 202-218 MORGAN AVENUE
City,State,Zip: BROOKLYN, NY 11237
Site Code: 407689
Control Name: O&M Plan
HW Code: C224133
Control Code: 33
Control Type: INST

FRITO LAY (Continued) **S109416391**

Dt record added: 10/22/2013
Dt rec updated: 05/31/2017
Updated By: CHPOST
Site Code: 407689
Site Description: "Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site. Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."
Env Problem: "The remedial plan for the site was implemented such that the site no longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals, such as lead and mercury, in soil throughout the site."
Health Problem: "The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."
Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2008-12-11 13:40:00
Record Upd: 2013-09-20 14:10:00
Updated By: ldennist

FRITO LAY (Continued) **S109416391**

Own Op: Document Repository
Sub Type: P03
Owner Name: Patricia Sacco, Library Information Supervisor
Owner Company: Brooklyn Public Library Bushwick Branch
Owner Address: 340 Bushwick Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11206
Owner Country: United States of America
Own Op: 6
Sub Type: P03
Owner Name: Keith Massa
Owner Company: Rolling Frito-Lay Sales, LP
Owner Address: 7701 Legacy Drive
Owner Addr2: Not reported
Owner City,St,Zip: Plano, TX 75024-4099
Owner Country: United States of America
Own Op: 1
Sub Type: P03
Owner Name: Cedric Robinson
Owner Company: Rolling Frito-Lay Sales, LP
Owner Address: 7701 Legacy Drive
Owner Addr2: Not reported
Owner City,St,Zip: Plano, TX 75024-4099
Owner Country: United States of America
HW Code: C224133
Waste Type: POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: ARSENIC
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133

FRITO LAY (Continued) **S109416391**

Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: ER1609278
Cross Ref Type Code: 01
Cross Ref Type: Spill No.
Record Added Date: 2018-04-13 15:49:00
Record Updated: 2018-04-13 15:49:00
Updated By: CHPOST
Crossref ID: 2013000399904
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2013-10-11 11:05:00
Record Updated: 2013-10-11 11:05:00
Updated By: KPSARNOW
Crossref ID: C224133
Cross Ref Type Code: 22
Cross Ref Type: BCP Site ID
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: A2-0622-0709
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: 08/20/2009
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 2013-10-28 11:26:00
Record Updated: 2013-10-28 11:26:00
Updated By: JEBROWN

Name: FRITO LAY
Address: 202-218 MORGAN AVENUE
City,State,Zip: BROOKLYN, NY 11237
Site Code: 407689
Control Name: IC/EC Plan
HW Code: C224133
Control Code: 34
Control Type: INST
Dt record added: 10/22/2013
Dt rec updated: 05/31/2017
Updated By: CHPOST
Site Code: 407689
Site Description: "Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal

FRITO LAY (Continued) **S109416391**

yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site. Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."

Env Problem: "The remedial plan for the site was implemented such that the site no longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals, such as lead and mercury, in soil throughout the site."

Health Problem: "The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2008-12-11 13:40:00
Record Upd: 2013-09-20 14:10:00
Updated By: ldennist
Own Op: Document Repository
Sub Type: P03
Owner Name: Patricia Sacco, Library Information Supervisor
Owner Company: Brooklyn Public Library Bushwick Branch
Owner Address: 340 Bushwick Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11206
Owner Country: United States of America
Own Op: 6
Sub Type: P03
Owner Name: Keith Massa
Owner Company: Rolling Frito-Lay Sales, LP
Owner Address: 7701 Legacy Drive
Owner Addr2: Not reported
Owner City,St,Zip: Plano, TX 75024-4099

FRITO LAY (Continued) **S109416391**

Owner Country: United States of America
Own Op: 1
Sub Type: P03
Owner Name: Cedric Robinson
Owner Company: Rolling Frito-Lay Sales, LP
Owner Address: 7701 Legacy Drive
Owner Addr2: Not reported
Owner City,St,Zip: Plano, TX 75024-4099
Owner Country: United States of America
HW Code: C224133
Waste Type: POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: ARSENIC
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: ER1609278
Cross Ref Type Code: 01
Cross Ref Type: Spill No.
Record Added Date: 2018-04-13 15:49:00
Record Updated: 2018-04-13 15:49:00
Updated By: CHPOST
Crossref ID: 2013000399904
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2013-10-11 11:05:00
Record Updated: 2013-10-11 11:05:00
Updated By: KPSARNOW

FRITO LAY (Continued) **S109416391**

Crossref ID: C224133
Cross Ref Type Code: 22
Cross Ref Type: BCP Site ID
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: A2-0622-0709
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: 08/20/2009
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 2013-10-28 11:26:00
Record Updated: 2013-10-28 11:26:00
Updated By: JEBROWN

Name: FRITO LAY
Address: 202-218 MORGAN AVENUE
City,State,Zip: BROOKLYN, NY 11237
Site Code: 407689
Control Name: Environmental Easement
HW Code: C224133
Control Code: J
Control Type: INST
Dt record added: 10/22/2013
Dt rec updated: 05/31/2017
Updated By: CHPOST
Site Code: 407689
Site Description: "Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site. Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."
Env Problem: "The remedial plan for the site was implemented such that the site no longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals,

FRITO LAY (Continued) **S109416391**

	such as lead and mercury, in soil throughout the site."
Health Problem:	"The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2008-12-11 13:40:00
Record Upd:	2013-09-20 14:10:00
Updated By:	ldennist
Own Op:	Document Repository
Sub Type:	P03
Owner Name:	Patricia Sacco, Library Information Supervisor
Owner Company:	Brooklyn Public Library Bushwick Branch
Owner Address:	340 Bushwick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11206
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	Keith Massa
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
Own Op:	1
Sub Type:	P03
Owner Name:	Cedric Robinson
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
HW Code:	C224133
Waste Type:	POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	TETRACHLOROETHYLENE (PCE)

FRITO LAY (Continued) **S109416391**

Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: ARSENIC
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: ER1609278
Cross Ref Type Code: 01
Cross Ref Type: Spill No.
Record Added Date: 2018-04-13 15:49:00
Record Updated: 2018-04-13 15:49:00
Updated By: CHPOST
Crossref ID: 2013000399904
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2013-10-11 11:05:00
Record Updated: 2013-10-11 11:05:00
Updated By: KPSARNOW
Crossref ID: C224133
Cross Ref Type Code: 22
Cross Ref Type: BCP Site ID
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: A2-0622-0709
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: 08/20/2009
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date

FRITO LAY (Continued) **S109416391**

Record Added Date: 2013-10-28 11:26:00
Record Updated: 2013-10-28 11:26:00
Updated By: JEBROWN

Name: FRITO LAY
Address: 202-218 MORGAN AVENUE
City,State,Zip: BROOKLYN, NY 11237
Site Code: 407689
Control Name: Ground Water Use Restriction
HW Code: C224133
Control Code: 08
Control Type: INST
Dt record added: 10/22/2013
Dt rec updated: 05/31/2017
Updated By: CHPOST
Site Code: 407689
Site Description: "Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site. Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."
Env Problem: "The remedial plan for the site was implemented such that the site no longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals, such as lead and mercury, in soil throughout the site."
Health Problem: "The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."

FRITO LAY (Continued) **S109416391**

Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2008-12-11 13:40:00
Record Upd:	2013-09-20 14:10:00
Updated By:	ldennist
Own Op:	Document Repository
Sub Type:	P03
Owner Name:	Patricia Sacco, Library Information Supervisor
Owner Company:	Brooklyn Public Library Bushwick Branch
Owner Address:	340 Bushwick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11206
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	Keith Massa
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
Own Op:	1
Sub Type:	P03
Owner Name:	Cedric Robinson
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
HW Code:	C224133
Waste Type:	POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	VINYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	DICHLOROETHYLENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	ARSENIC
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133

FRITO LAY (Continued) **S109416391**

Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C224133
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: ER1609278
Cross Ref Type Code: 01
Cross Ref Type: Spill No.
Record Added Date: 2018-04-13 15:49:00
Record Updated: 2018-04-13 15:49:00
Updated By: CHPOST
Crossref ID: 2013000399904
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2013-10-11 11:05:00
Record Updated: 2013-10-11 11:05:00
Updated By: KPSARNOW
Crossref ID: C224133
Cross Ref Type Code: 22
Cross Ref Type: BCP Site ID
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: A2-0622-0709
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 2013-10-28 11:27:00
Record Updated: 2013-10-28 11:27:00
Updated By: JEBROWN
Crossref ID: 08/20/2009
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 2013-10-28 11:26:00
Record Updated: 2013-10-28 11:26:00
Updated By: JEBROWN

BROWNFIELDS:

Name:	FRITO LAY
Address:	202-218 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Program:	BCP
Site Code:	407689
Acres:	2.760
HW Code:	C224133
SWIS:	2401
Town:	New York City
Record Added Date:	12/11/2008

FRITO LAY (Continued) **S109416391**

Record Updated Date:	04/15/2021
Update By:	SMQUANDT
Site Description:	"Location: The site is located at 202-218 Morgan Avenue in an urban area in the north end of the Borough of Brooklyn, Kings County. To the north of the property is a warehouse, to the east and south is the English Kills, a tributary to the Newtown Creek, and to the west the site is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. Site Features: The site property is approximately 2.8 acres in area and is currently undeveloped with no standing structures. Current Zoning and Land Use: The site is currently vacant, and is zoned for industrial use. The surrounding parcels are currently used for a combination of commercial and industrial use. Past Use of the Site: The site was previously used as a scrap metal yard. The activities related to this type of business are the apparent source of site-wide PCB contamination. Scrap activities and the presence of historic fill material are believed to be the cause of the site-wide metals contamination. Site Geology and Hydrogeology: The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 feet below ground surface. The nearest water body is the English Kills, a tributary to the Newtown Creek, which abuts the eastern and south sides of the site. Groundwater flow is to the southeast. The site soil is primarily fill material to the water table. Below the fill material the site is underlain by sand and gravel."
Env Problem:	"The remedial plan for the site was implemented such that the site no longer presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater, as well as the high levels of PCBs and other metals, such as lead and mercury, in soil throughout the site."
Health Problem:	"The site is fenced and covered with asphalt and concrete; therefore, people are not expected to come into contact with site-related contaminants in soil and groundwater unless they dig below the site cover system. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site buildings which are developed and occupied."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2008-12-11 13:40:00
Record Upd:	2013-09-20 14:10:00
Updated By:	ldennist
Own Op:	Document Repository
Sub Type:	P03
Owner Name:	Patricia Sacco, Library Information Supervisor

FRITO LAY (Continued) **S109416391**

Owner Company:	Brooklyn Public Library Bushwick Branch
Owner Address:	340 Bushwick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11206
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	Keith Massa
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
Own Op:	1
Sub Type:	P03
Owner Name:	Cedric Robinson
Owner Company:	Rolling Frito-Lay Sales, LP
Owner Address:	7701 Legacy Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Plano, TX 75024-4099
Owner Country:	United States of America
HW Code:	C224133
Waste Type:	POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	VINYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	DICHLOROETHYLENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	ARSENIC
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	1,1 Dichloroethene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224133
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported

FRITO LAY (Continued) **S109416391**

Crossref ID:	ER1609278
Cross Ref Type Code:	01
Cross Ref Type:	Spill No.
Record Added Date:	2018-04-13 15:49:00
Record Updated:	2018-04-13 15:49:00
Updated By:	CHPOST
Crossref ID:	2013000399904
Cross Ref Type Code:	25
Cross Ref Type:	County Recording Identifier
Record Added Date:	2013-10-11 11:05:00
Record Updated:	2013-10-11 11:05:00
Updated By:	KPSARNOW
Crossref ID:	C224133
Cross Ref Type Code:	22
Cross Ref Type:	BCP Site ID
Record Added Date:	2013-10-28 11:27:00
Record Updated:	2013-10-28 11:27:00
Updated By:	JEBROWN
Crossref ID:	A2-0622-0709
Cross Ref Type Code:	23
Cross Ref Type:	Agreement/Consent Order Number
Record Added Date:	2013-10-28 11:27:00
Record Updated:	2013-10-28 11:27:00
Updated By:	JEBROWN
Crossref ID:	08/20/2009
Cross Ref Type Code:	26
Cross Ref Type:	Agreement/Consent Order Date
Record Added Date:	2013-10-28 11:26:00
Record Updated:	2013-10-28 11:26:00
Updated By:	JEBROWN

AB181 **FRITO-LAY** **NY SWF/LF** **S108635814**
WSW **202 MORGAN AVENUE** **NY Spills** **N/A**
1/4-1/2 **BROOKLYN, NY 11237** **NY MANIFEST**
0.262 mi.
1386 ft. **Site 2 of 2 in cluster AB**

Relative:
Lower

Actual:
13 ft.

SWF/LF:

Name:	KARNAK (NEWTOWN METAL CORP.)
Address:	202 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	7183660717
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	STANLEY K. HORNG
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit

FRITO-LAY (Continued) **S108635814**

Activity Number: [24T60]
Active: No
East Coordinate: 589900
North Coordinate: 4507500
Accuracy Code: Not reported
Regulatory Status: Not reported
Waste Type: Not reported
Authorization #: 2-6101-00015
Authorization Date: Not reported
Expiration Date: Not reported
Operator Name: Not reported
Operator Type: Not reported
Laste Date: Not reported

SPILLS:
Name: DRUM RUN
Address: 202 MORGAN AVE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 0700119 / 2007-05-23
Facility ID: 0700119
Facility Type: ER
DER Facility ID: 328885
Site ID: 379402
DEC Region: 2
Spill Cause: Abandoned Drums
Spill Class: C3
SWIS: 2401
Spill Date: 2007-04-04
Investigator: SFRAHMAN
Referred To: Not reported
Reported to Dept: 2007-04-04
CID: 444
Water Affected: Not reported
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2007-04-04
Spill Record Last Update: 2007-05-23
Spiller Name: VICTOR LEE
Spiller Company: ON SIDEWALK
Spiller Address: 202 MORGAN AV
Spiller Company: 001
Contact Name: VICTOR LEE
DEC Memo: "add to next drum run 05/23/07 Drum was not found on 05/22/07."
Remarks: "DRUM ON SIDEWALK NEEDS TO BE PICKED UP"

All Materials:
Site ID: 379402
Operable Unit ID: 1136884
Operable Unit: 01
Material ID: 2126828
Material Code: 0022

FRITO-LAY (Continued) **S108635814**

Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

NY MANIFEST:

Name:	FRITO-LAY
Address:	202 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYR000188193
Facility Status:	Not reported
Location Address 1:	202 MORGAN AVENUE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000188193
Mailing Name:	FRITO-LAY
Mailing Contact:	BRYAN TISKOWITZ
Mailing Address 1:	202-218 MORGAN AVE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NYR000159962
Trans2 State ID:	Not reported
Generator Ship Date:	12/07/2012
Trans1 Recv Date:	12/07/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/10/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000188193
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	009979236JJK

FRITO-LAY (Continued) **S108635814**

Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	Y
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H132
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	31706
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Waste Code:	Not reported
Waste Code 1_2:	B007
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

182
West
1/4-1/2
0.266 mi.
1402 ft.

DURITE S&V & MAINT. CORP.
250 MORGAN AVE
BROOKLYN, NY 11237

NY SWF/LF **S105841904**
N/A

Relative:
Higher

Actual:
16 ft.

SWF/LF:

Name:	DURITE S&V & MAINT. CORP.
Address:	250 MORGAN AVE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	7184177271
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	STEVE RUSSEL; OWNER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration

DURITE S&V & MAINT. CORP. (Continued) **S105841904**

Activity Number:	[24W67]
Active:	No
East Coordinate:	589000
North Coordinate:	4507200
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Not reported
Authorization #:	2-6104-00016
Authorization Date:	5/21/1991
Expiration Date:	5/31/1996
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

AC183 **WASTE MANAGEMENT OF NY; INC.; (101 VARIC** **NY SWRCY** **S104953192**
South **101 VARICK AVENUE** **NY Spills** **N/A**
1/4-1/2 **BROOKLYN, NY 11237** **NY SPDES**
0.266 mi.
1406 ft. **Site 1 of 2 in cluster AC**

Relative: SWRCY:
Lower

Actual: Name:	WASTE MANAGEMENT OF NY; INC.; (101 VARIC
9 ft. Address:	101 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Region:	2
Facility Address 2:	Not reported
Phone Number:	7183867900
Owner Type:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	ANTHONY LOMANGINO; PRES.
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	RHRF - registration
Activity Number:	[24MD7]
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Permit #:	Not reported
Auth. Date:	Not reported
Expiration Date:	Not reported
Waste Types:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Last Date:	Not reported

SPILLS:

Name:	INDUSTRIAL

WASTE MANAGEMENT OF NY; INC.; (101 VARIC (Continued) **S104953192**

Address:	101 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	2001862 / 2021-03-11
Facility ID:	2001862
Facility Type:	ER
DER Facility ID:	554957
Site ID:	606526
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	3101
Spill Date:	2020-06-13
Investigator:	VSZHUNE
Referred To:	Not reported
Reported to Dept:	2020-06-13
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2020-06-13
Spill Record Last Update:	2021-03-16
Spiller Name:	Not reported
Spiller Company:	WATCOS
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	FRANCIS CONDRICK
DEC Memo:	"6/13/20-Lin-According to caller, a former employee was suspected to open the valve to a diesel tote and about 40 gallons of diesel went onto facility concrete and a storm drain. The storm drain goes to the Newtown creek but the oil was contained in the drain and did not make it out to the creek. ACV was hired to perform the cleanup and pump out the drain. DEC Zhune was dispatched to site. Site contact: Leon Bangari 917-468-8097 ACV environmental 718-456-7779 ext 5516 6/13/20-Zhune responded to this spill. During my inspection I observed the surface cleaned. It was cleaned by Watco personal. Watco checked the four storm drain and the oil did not go to the creek, ACV confirmed that the oil did not reach the creek. ACV was going to pumped out the oil from the storm drain. Sunil- 347-865-9937 3/11/21- Zhune- Jesse Rivera from ACV Enviro sent the following email. Attaches are the T&M and manifest document for the clean up at Varick Ave. ACV was called by Watco companies to pump out and wash down storm drain that was impacted by approx.. 2-3 gallons of diesel. ACV cleaned the affected storm drain and also 3 more that were connected. Spill Closed."
Remarks:	"clean up in progress was removed from storm drain"

All Materials:

Site ID:	606526
Operable Unit ID:	1353693
Operable Unit:	01
Material ID:	2364702
Material Code:	0008

WASTE MANAGEMENT OF NY; INC.; (101 VARIC (Continued) **S104953192**

Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	40.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

Name:	WASTE MANAGEMENT
Address:	101 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1001432 / 2010-09-02
Facility ID:	1001432
Facility Type:	ER
DER Facility ID:	264863
Site ID:	434486
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Spill Date:	2010-05-06
Investigator:	HRAHMED
Referred To:	Not reported
Reported to Dept:	2010-05-06
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2010-05-06
Spill Record Last Update:	2010-09-02
Spiller Name:	JAY KAPLAN
Spiller Company:	HISTORICAL SPILL
Spiller Address:	101 VARICK AVE
Spiller Company:	999
Contact Name:	JAY KAPLAN
DEC Memo:	"7/7/10-HRAHMED-Receieved Remedial Action report from Day Environmental. 8/4/10-HRAHMED-Started Reviewing Remedial Action report. PBS#2-605608 Requirements: 1) Update PBS records to reflect closure and removal of 8000 gal UST and resolve conflicts with Fire dept. record "
Remarks:	"During excavation abandoned tank filled with concrete was found. Soil was contaminated. Clean up is in progress. Environmnetal Consultant has been hired to perform an environmnetal closure report and remeidiation."

All Materials:

Site ID:	434486
Operable Unit ID:	1185310
Operable Unit:	01
Material ID:	2179628
Material Code:	0001A

WASTE MANAGEMENT OF NY; INC.; (101 VARIC (Continued) **S104953192**

Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

Name:	WASTE MANAGEMENT
Address:	101 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0012799 / 2001-03-05
Facility ID:	0012799
Facility Type:	ER
DER Facility ID:	264863
Site ID:	329115
DEC Region:	2
Spill Cause:	Other
Spill Class:	C4
SWIS:	2401
Spill Date:	2001-03-03
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	2001-03-03
CID:	396
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-03-03
Spill Record Last Update:	2001-07-11
Spiller Name:	Not reported
Spiller Company:	LAFAYETTE GRINDING
Spiller Address:	115 BANKER ST
Spiller Company:	001
Contact Name:	NYC DEP
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEMEO nyfd RESPONDED TO SCENE OF SMOKING DEBRIS. NO SPILL"
Remarks:	"caller was advised by waste management that they picked up a 20 yard roll off container of unk. material in dirt...it is smoking...container was picked up at lafayette grinding and transported to wastemanagement facility...it is still there now."

All Materials:

Site ID:	329115
Operable Unit ID:	834334
Operable Unit:	01
Material ID:	543069
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other

WASTE MANAGEMENT OF NY; INC.; (101 VARIC (Continued) **S104953192**

Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPDES:

Name:	WASTE MANAGEMENT OF NY LLC - NYC HAULING
Address:	101 VARICK AVE
City,State,Zip:	BROOKLYN, NY 10454
Permit Number:	NYR00D388
State-Region:	02
Expiration Date:	03/31/2012
Current Major Minor Status:	Minor
Primary Facility SIC Code:	4212
State Water Body Name:	ENGLISH KILLS CREEK
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.708806 / -73.928222
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	WAST MANAGEMENT OF NEW YORK LLC
Non-Gov Permit Street Address:	NYC HAULING
Non-Gov Permit Supplemental Location:	123 VARICK AVE
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11237
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	WASTE MANAGEMENT OF NEW YORK LLC
Non-Gov Facility Street Address:	WASTE MANAGEMENT OF NY LLC - NYC HAULING
Non-Gov Facility Supplemental Location:	123 VARICK AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Name:	WASTE MANAGEMENT OF NY LLC - NYC HAULING
Address:	101 VARICK AVE
City,State,Zip:	BROOKLYN, NY 10454
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047

WASTE MANAGEMENT OF NY; INC.; (101 VARIC (Continued) **S104953192**

Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	WASTE MANAGEMENT OF NEW YORK LLC
Non-Gov Permit Street Address:	123 VARICK AVE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11237
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	WASTE MANAGEMENT OF NEW YORK LLC
Non-Gov Facility Street Address:	WASTE MANAGEMENT OF NY LLC - NYC HAULING
Non-Gov Facility Supplemental Location:	123 VARICK AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Name:	WASTE MANAGEMENT OF NY LLC - NYC HAULING
Address:	101 VARICK AVE
City,State,Zip:	BROOKLYN, NY 10454
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	WASTE MANAGEMENT OF NEW YORK LLC
Non-Gov Facility Street Address:	WASTE MANAGEMENT OF NY LLC - NYC HAULING
Non-Gov Facility Supplemental Location:	123 VARICK AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

184
WNW
1/4-1/2
0.274 mi.
1445 ft.

GREEN HILL
2 REWE ST & 300 VANDERVOO
BROOKLYN, NY

NY LTANKS **S105999093**
N/A

Relative:
Lower

Actual:
9 ft.

LTANKS:

Name:	GREEN HILL
Address:	2 REWE ST & 300 VANDERVOO
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0302094 / 2006-01-31
Facility ID:	0302094
Site ID:	191858
Spill Date:	2003-05-29
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	JXZHAO
Referred To:	Not reported
Reported to Dept:	2003-05-29
CID:	297
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	2003-05-29
Spill Record Last Update:	2006-01-31
Spiller Name:	ALBERT CHAN
Spiller Company:	Not reported
Spiller Address:	2 REWE ST & 300 VANDERVOO
Spiller County:	001
Spiller Contact:	ALBERT CHAN
Spiller Phone:	(718) 963-2800
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	160009
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHAO Sangesland DDO Zhao is assigned because consultant dealt with her on this site. Contaminated soil letter was sent to: Consultant is: Andrew Drotleff of TRC Raviv Assoc (973-564-6006 x285) 57 East Willow St., Millburn, NJ 07041 Site is a corner lot with 2 addresses: (2 Rewe St & 300 Vandervoort) PBS 2-608764 Two tanks are being abandoned in place (3,000 gal and 2,000) One tank had pin holes in it and water poured in from raised water table. The second tank appeared OK, but had some oil odor from the soil in the piping area. 10/31/2005 - JZ: Zhao spoke with Andrew Drotleff, TRC. Recently took GW samples from 3 wells. Sesults are favorable and look clean. Report will be send in end November. 1/31/2006 - JZ: Report was submitted and reviewed. spill is closed. "
Remarks:	"CALLERS COMPANY PERFORMING A TANK CLOSURE AND CONTAMINATED SOIL WAS DISCOVERED AROUND 2 TANKS"

All Materials:

Site ID:	191858
Operable Unit ID:	870003

GREEN HILL (Continued) **S105999093**

Operable Unit:	01
Material ID:	506580
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported
Site ID:	191858
Operable Unit ID:	870003
Operable Unit:	01
Material ID:	506579
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

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185 **COTOIA ENTERPRISES** **NY SWRCY** **S105842300**
East **46-26 METROPOLITAN AVE.** **N/A**
1/4-1/2 **RIDGEWOOD, NY 0**
0.274 mi.
1448 ft.

Relative: **Lower**

Actual: **9 ft.**

SWRCY:

Name:	COTOIA ENTERPRISES
Address:	46-26 METROPOLITAN AVE.
City,State,Zip:	RIDGEWOOD, NY 0
Region:	2
Facility Address 2:	Not reported
Phone Number:	7183811134
Owner Type:	Not reported
Owner Name:	Marcangelo Cotoia
Owner Address:	46-26 Metropolitan Ave.
Owner Address 2:	Not reported
Owner City,St,Zip:	Ridgewood, NY 11385
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	RHRF - registration
Activity Number:	[00M00]
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported

COTOIA ENTERPRISES (Continued) **S105842300**

Permit #:	2-3790-91-07
Auth. Date:	Not reported
Expiration Date:	Not reported
Waste Types:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Last Date:	Not reported

186
NE
1/4-1/2
0.275 mi.
1452 ft.

Relative:
Lower

Actual:
4 ft.

YRC BROOKLYN (187)
1313 GRAND ST
BROOKLYN, NY 11211

RCRA-VSQG **1004756458**
NY LTANKS **NYD095769782**
NY Spills
FINDS
ECHO
NY MANIFEST
NY SPDES

RCRA-VSQG:

Date Form Received by Agency:		20070101
Handler Name:	ROADWAY EXPRESS	
Handler Address:		1313 GRAND ST
Handler City,State,Zip:		BROOKLYN, NY 11211
EPA ID:		NYD095769782
Contact Name:		THOMAS W GERHOLD
Contact Address:		ROE AVE
Contact City,State,Zip:		OVERLAND PARK, KS 66211
Contact Telephone:		913-344-3066
Contact Fax:		Not reported
Contact Email:		TOM.GERHOLD@YELLOWROADWAY.COM
Contact Title:		Not reported
EPA Region:		02
Land Type:		Private
Federal Waste Generator Description:		Conditionally Exempt Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		ROE AVE
Mailing City,State,Zip:		OVERLAND PARK, KS 66211
Owner Name:		ROADWAY EXPRESS
Owner Type:		Private
Operator Name:		ROADWAY EXPRESS
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported

YRC BROOKLYN (187) (Continued) **1004756458**

Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D039
Waste Description:	TETRACHLOROETHYLENE

YRC BROOKLYN (187) (Continued) **1004756458**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ROADWAY SERVICES INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ROADWAY EXPRESS
Legal Status:	Private
Date Became Current:	19850301
Date Ended Current:	Not reported
Owner/Operator Address:	1077 GORGE BLVD
Owner/Operator City,State,Zip:	AKRON, OH 44309
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ROADWAY EXPRESS
Legal Status:	Private
Date Became Current:	19850301
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ROADWAY EXPRESS
Legal Status:	Private
Date Became Current:	19850301
Date Ended Current:	Not reported
Owner/Operator Address:	1077 GORGE BLVD
Owner/Operator City,State,Zip:	AKRON, OH 44309
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ROADWAY EXPRESS
Legal Status:	Private
Date Became Current:	19850301
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported

YRC BROOKLYN (187) (Continued) **1004756458**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20060306
Handler Name: ROADWAY EXPRESS
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: ROADWAY EXPRESS
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19860728
Handler Name: ROADWAY EXPRESS INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060307
Handler Name: ROADWAY EXPRESS
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

YRC BROOKLYN (187) (Continued) **1004756458**

List of NAICS Codes and Descriptions:
NAICS Code: 484122
NAICS Description: GENERAL FREIGHT TRUCKING, LONG-DISTANCE, LESS THAN TRUCKLOAD

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

LTANKS:
Name: ROADWAY EXPRESS
Address: 1313 GRAND ST
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 1004888 / 2013-02-22
Facility ID: 1004888
Site ID: 438179
Spill Date: 2010-07-30
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: C4
Cleanup Ceased: Not reported
SWIS: 2401
Investigator: JBVOUGHT
Referred To: Not reported
Reported to Dept: 2010-07-30
CID: Not reported
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2010-07-30
Spill Record Last Update: 2013-02-22
Spiller Name: PHYLLIS TAINISH DEPT A-20
Spiller Company: ROADWAY EXPRESS INC
Spiller Address: 1077 GORGE BLVD
Spiller County: 999
Spiller Contact: MARK SHIRLEY
Spiller Phone: (212) 292-2210
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 143819
DEC Memo: "7/30/10 - Raphael Ketani. Advanced Tank Service (Jeff McKenzie - (800) 440-8265) did a tank system test. The system failed and the spill was called in today. The subject UST is 1,000 gal. and contains #2 oil. It was installed on 12/1/88. The site is Roadway Express Inc., 1313 Grand Street, Brooklyn. The local contact is Marc Shirley (212) 292-2210. There are two PBS cases, #2-157724 and 32-043826. The #2-157724 case shows 17 tanks that were all closed prior to March 1991. The #2-043826 case shows 21 tanks. Most of the tanks had diesel or gasoline. One 1,000 gal. tank has #2 oil. Sixteen tanks were

YRC BROOKLYN (187) (Continued) **1004756458**

closed prior to March 1991. Four tanks were closed and removed on 9/1/88. The one active tank is the 1,000 gal. UST. Mail goes to Roadway Express Inc., 1077 Gorge Blvd., Akron, OH, 44310, attn: Phyllis Tainish - Dept. A-20, (330) 258-2475. The owner is Roadway Express, 1077 Gorge Blvd., Akron, OH, 44309, (216) 384-1717, local number (718) 821-5410 - Jack Leslie T.M. A TTF letter was sent to the mailing address. 8/27/10 Received 2 voicemail messages from Jeff Lawson, consultant from Cleveland, OH. Phone: (440)268-0333. He requested more time to respond to ttf letter. I was not aware of this spill case until yesterday. This is a non-regulated site since the tank stores less than 1000 gallons of heating oil. He requested more time to respond to the ttf letter and he believed the site was unregulated. I called him today at approximately 3:15 PM and left a message allowing more time for a response; stating that based on the info in DEC database the site is unregulated, but the spill must be addressed as per NL; and that he should call me this afternoon or next week so we can discuss the case. bf 9/20/10 Found letter dated 8/27/10 on my desk. It was received by DEC on 9/3/10. The letter asks the questions that were answeered in the voicemail on 8/27/10. Letter is in e-docs. bf 1/19/11 Received voicemail from PBS Voicemail at 9:46 from Jeff Lawson. Phone:(440)268-0333. He stated that they are ready to close the tank and would like to discuss. I returned call at approx. 1:30 PM and left a message to call me. bf 1/26/11 Spoke to Mike Ruffoni of Reliance Environmental (717)735-9508. Explained that he needs to address ttf. They are still not sdure why tank failed. Tank removal is planned. bf 2/22/13-Vought-This spill transferred from Falvey to Vought as Vought performing comprehensive file and site review in relation to reviewing results for above tank excavation and removal as well as all former tanks on property. This spill closed and referred to open Spill 0910021 at same site."

Remarks: "cleanup pending - sub contractor reporting"

All TTF:

Facility ID:	1004888
Spill Number:	1004888
Spill Tank Test:	2489265
Site ID:	438179
Tank Number:	21
Tank Size:	1000
Material:	0001
EPA UST:	False
UST:	True
Cause:	03
Source:	01
Test Method:	21
Test Method 2:	Horner EZY3/EZY3 Locator Plus
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	RVKETANI
Last Modified Date:	Not reported

All Materials:

Site ID:	438179
Operable Unit ID:	1188844
Operable Unit:	01
Material ID:	2183775
Material Code:	0001A

YRC BROOKLYN (187) (Continued) **1004756458**

Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

Name:	1313 GRAND ST/BKLYN/ROADW
Address:	1313 GRAND ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	8708981 / 1992-10-07
Facility ID:	8708981
Site ID:	170911
Spill Date:	1988-01-21
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	1992-10-07
SWIS:	2401
Investigator:	BATTISTA
Referred To:	Not reported
Reported to Dept:	1988-01-21
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1988-01-26
Spill Record Last Update:	2002-11-13
Spiller Name:	Not reported
Spiller Company:	ROADWAY EXPRESS
Spiller Address:	1313 GRAND ST
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	143819
DEC Memo:	""
Remarks:	"1K TANK SYSTEM FAILED HYDROSTATIC AIR TEST, TO REMOVE PRODUCT ON 1/21/88 AND REPLACE TANK."

All TTF:

Facility ID:	8708981
Spill Number:	8708981
Spill Tank Test:	1533057
Site ID:	170911
Tank Number:	Not reported
Tank Size:	0
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported

YRC BROOKLYN (187) (Continued) **1004756458**

Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	170911
Operable Unit ID:	914235
Operable Unit:	01
Material ID:	464329
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

SPILLS:

Name:	ROADWAY EXPRESS
Address:	1313 GRAND ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0103983 / 2001-07-28
Facility ID:	0103983
Facility Type:	ER
DER Facility ID:	143819
Site ID:	170910
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	2001-07-14
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	2001-07-14
CID:	211
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-07-14
Spill Record Last Update:	2002-05-15
Spiller Name:	LEONA BOWSER
Spiller Company:	ROADWAY EXPRESS
Spiller Address:	1077 GORGE BLVD
Spiller Company:	001

YRC BROOKLYN (187) (Continued) **1004756458**

Contact Name:	LEONA BOWSER
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was KRIMGOLD All cleaned up by the spiller."
Remarks:	"CRACK IN FUEL LINE CAUSED SPILL - SPEEDY DRY CONTAINED SPILL AND CLEAN UP IN PROGRESS"

All Materials:

Site ID:	170910
Operable Unit ID:	842517
Operable Unit:	01
Material ID:	532494
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	ROADWAY EXPRESS INC
Address:	1313 GRAND ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9808077 / 2007-09-12
Facility ID:	9808077
Facility Type:	ER
DER Facility ID:	143819
Site ID:	170912
DEC Region:	2
Spill Cause:	Other
Spill Class:	C3
SWIS:	2401
Spill Date:	1998-09-30
Investigator:	WXSUN
Referred To:	TCR PREPARED BY APEX ENV.
Reported to Dept:	1998-10-01
CID:	366
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1998-10-01
Spill Record Last Update:	2007-09-12
Spiller Name:	JACK LESLIE
Spiller Company:	ROADWAY EXPRESS INC
Spiller Address:	1313 GRAND ST
Spiller Company:	001
Contact Name:	JACK LESLIE
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MULQUEEN TANK REMOVAL. SOIL AROUND FILL CONTAMINATED, STOCKPILED. SAMPLES TAKEN. SOIL SAMPLES SHOWED HIGH SEMI-VOLS. TCLP DONE ON SAMPLES 11/3/03 - AUSTIN - REVIEW OF PBS FOR SITE FOUND ALL TANKS

YRC BROOKLYN (187) (Continued) **1004756458**

CLOSED OUT - CLOSURE REPORT IN UNASSIGNED SPILLS FILE - REASSIGN THIS REPORT AS PART OF PROJECT TRANSFERS BETWEEN SECTIONS - END 06/16/06: This spill is transferred from Mike Mulqueen to Mr. Koon Tang. 10/30/06 Reassigned from Tang to Sun. (MS) 8/6/07: Tank Closure Report re-located. Performed by Apex Environmental in February 1999. Reviewing for possible closure. (JS/MS) 9/11/07: All VOC was non-detect, SVOC was above but re-submited for TCLP and was below. (JS/MS) 9/12/07: TCR from APEX shows that site has been adequetely cleaned after the removal of fuel, diesel, and waste oil USTs. Approx 300 tons of soil was disposed of properly and the excavations were all backfilled with certified clean fill. A NFA letter was sent to Phyllis Tainish - the representative of Roadway Express Inc., at 1077 Gorge Blvd in Akron, OH 44310. This spill case closed on 9/12/07. (JS/MS)"

Remarks: "CALLER STATES A MINOR SPILL ON GROUND. CLEAN UP HAS BEEN ARRANGED."

All Materials:

Site ID:	170912
Operable Unit ID:	1069256
Operable Unit:	01
Material ID:	315608
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	ROADWAY EXPRESS TRUCKING TERMINAL
Address:	1313 GRAND STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0910021 / 2013-02-22
Facility ID:	0910021
Facility Type:	ER
DER Facility ID:	423271
Site ID:	422759
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	2401
Spill Date:	2009-12-09
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	2009-12-09
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-12-09

YRC BROOKLYN (187) (Continued) **1004756458**

Spill Record Last Update: 2013-02-22
Spiller Name: DERRIC KEARNS
Spiller Company: NORTH AMERICAN TERMINALS MANAGEMENT
Spiller Address: 1313 GRAND ST
Spiller Company: 999
Contact Name: DERRIC KEARNS
DEC Memo: "Phase 2 being done for a property transfer. Two groundwater samples slightly over limits for Benzene. Property Owner is: North American Terminals Management Inc. Attn: Miss Coleman Natmi Truck Terminals LLC c/o LaSalle Investment Management Inc. 100 East Pratt St.20th Flr Baltimore, Maryland 21202 No CSL letter was sent out, because Mr. Kearns said a full Phase 2 report was completed and he believes NYSDEC may just close the case out with the minor benzene numbers. Sangesland asked Mr. Kearns to submit the report to Hasan Ahmed and wait for further direction from the DEC for either closure or additional work. 02/24/10-HRAHMED-Deric Kearns (267 685 1800) called to get an update. Ask him to send me an electronic version of the report. 10/27/11 - Austin - Spill Transferred from Ahmed to Vought - end 7/31/12-Vought-Received call from and spoke to Mathew Sabbetta (Arcadis Ph:267-685-1800x1803). Contact is Robert Zimmermann (Arcadis Ph:330-434-1995). Site has a 1000-gallon #2 fuel tank that was noted in 2/11. Approximately fifteen soil borings were performed and one monitoring well was installed. 8/30/12-Vought-Reviewed July 2011 Subsurface Investigation Report and UST Investigation Report received via email on 7/31/12 from Matt Sabbetta. Complete file review by Vought: Vought reviewed Spills and PBS Database: PBS #2-043826 (expired 12/01): One 1000-gallon #2 fuel oil UST in service; one 2000-gallon diesel UST closed in 1998; two 4000-gallon diesel USTs closed in 1998; one 500-gallon gasoline UST closed in 1998; eight 550-gallon gasoline USTs and eight 550-gallon diesel USTs in service. PBS #2-157724(expired 10/92): Seventeen 550-gallon diesel USTs in service. SPILL 8708981: 1000-gallon UST system failed hydrostatic test and product to be removed and tank replaced as per caller remarks. No spill notes and no reports in e-docs. Spill closed 10/7/92. SPILL 9808077: As per DEC Remarks, Tank Closure Report from APEX shows that site has been adequetely cleaned after the removal of fuel, diesel, and waste oil USTs. Approx 300 tons of soil was disposed of properly and the excavations were all backfilled with certified clean fill. A NFA letter was sent to Phyllis Tainish - the representative of Roadway Express Inc., at 1077 Gorge Blvd in Akron, OH 44310. This spill case closed on 9/12/07. (JS/MS) Vought noted no report in edocs and no file able to be located in historical file room. SPILL 0103983: Caller Remarks noted that CRACK IN FUEL LINE CAUSED SPILL - SPEEDY DRY CONTAINED SPILL AND CLEAN UP IN PROGRESS . Spill closed on 7/28/01 and DEC remarks spill was all cleaned up . No reports in e-docs. SPILL 1004888: Tank Test failure of a 1000-gallon fuel oil UST and still spill open. No files in e-docs. SPILL 1130727: Spill report of contaminated soil. E-docs had Underground Storage Tank Closure report submitted by Reliance Environmental dated 3/28/11. Spill closed on 11/30/11. Removal of one 1000-gallon UST containing #2 fuel oil. Tank was out of service since 11/09 and was used as part of the maintenance garage heating system. UST was in concrete vault and 50-gallons of sludge and waste was removed from UST and tank and associated piping was removed from the ground. No holes or voids observed in tank and tank appeared to be in good condition . Groundwater was encountered at an initial depth of 5 feet below ground surface within the tank grave and was observed to

YRC BROOKLYN (187) (Continued) **1004756458**

contain a petroleum hydrocarbon layer . Elevated PID readings and staining in soils in northeastern sidewall of excavation at approximately 4.5'bg. Final excavation was 15' x 12' x 6'. No soil samples collected from base of excavation as they were below soil water interface. Photo in report shows recovery from water table in excavation. Soil analyticals show PAH exceedences attributable to fill. Spill closed by DEC Piper on 11/30/11 as no CP-51 Unrestricted Use exceedences for VOCs. 9/17/12-Vought-Continued File Review by Vought. Vought spoke with DEC Falvey (project manager of open TTF spill 1004888 and noted that UST that was subject of TTF in 1004888 was removed as subject of closed spill spill 1130727. Falvey agreed that spill 1004888 could be closed and that no PBS update was needed to reflect closure of 1000-gallon #2 fuel oil UST since all other tanks were administratively closed and the site falls currently under the 1100-gallon PBS registration requirement. July 2011 Subsurface Investigation Report (Arcadis)-4/25/12. Sampling done without written instruction from DEC as numerous requests submitted to DEC project manager Hasan Ahmed with out a response. Groundwater sampling done following discussion with DEC Ahmed and RSE in 6/10. DEC required soil and groundwater sample be taken across various locations onsite however DEC did not send letter formalizing requirements. Soil borings from previous investigations also included in report. Phase I and Phase II completed in 2009 and showed elevated SVOCs, metals in soil and 43ppb benzene in groundwater. In 2009 soil temporary wells were installed and subsequently abandoned. Maximum benzene concentrations in groundwater of 17ppb and spill 0910021 was reported. A Groundwater Investigation Report was submitted to DEC on 12/21/09. DEC Ahmed during a follow up conversation requested borings locations be placed around various former USTs, near a GPR anomoly and in the central asphalt lot. Soil analyticals showed no CP51 SCO exceedences and groundwater analyticals showed 57ppb napthalene(SW5). Report concludes that additional investigation is not warranted. Vought spoke to DEC Ahmed who forwarded email for 12/21/09 report however due to large file size, a separate CD would have to be sent from Arcadis. Former 1000 Gallon Underground Storage Tank (UST) Investigation (Arcadis)-4/25/12. Seven soil borings installed around 1000-gallon gasoline UST including collection of seven groundwater samples. No soil samples were above Part 375 Unrestricted SCOs excluding elevated PAHs which can be attributed to fill material. Groundwater samples also showed no TOGs exceedences. 9/17/12-Vought-Called and left message for Arcadis (Zimmerman) to send in Groundwater Investigation Report dated 10/23/09 via CD and Tank Closure Report for spill 9808077. Vought reviewed abbreviated Phase II Groundwater Investigation Report received from email from DEC Ahmed. Vought added Abbreviated Phase II to e-docs. Additional groundwater samples collected in August 2009 around the existing and former USTs. Cover Letter dated 12/21/09 for Report notes that either Newtown Creek or historic fill is source of dissolved phase benzene observed in site groundwater . Seven borings installed via Geoprobe and four of these were installed to assess downgradient locations of potential sources areas . Maximum concentrations of 17ppb benzene were noted. Report notes that there is not ample background information available at this time to determine potential sources . 9/18/12-Vought-Called Deric Kearns and left message to return call and that DEC needed copy of 1998 Tank Closure Report. Vought also sent email to Kearns with DEC requirements including submission of USTs and piping on site plans for both PBS Registrations, Submission

YRC BROOKLYN (187) (Continued) **1004756458**

of Tank Closure Report for closed spill 9808077 or possible investigation around USTs and piping as no leak detection and no tightness testing data in PBS Registration, closure of open spill 104888 at same site and referral to open spill 1103727, Submission of complete Groundwater Investigation Report dated 12/21/09. Vought received email from Kearns that We received your email and voicemail messages, thanks for laying these items out for us. We have begun to review our historic files and are actively trying to track down these items. I will contact you directly if we have any questions. 12/12/12-Vought-Received call from contact (Claudio) who is working for potential purchaser (Tony Argento) who is wishing to purchase property for use of production films. Contact for Claudio is Ph:917-939-8034 email:claudio@broadway-stages.com). Vought forwarded 9/18/12 email string to Kearns to Claudio with cc to Kearns. 2/12/13-Vought-Received call from and spoke to Ruben Byerley (YRC Freight Ph:913-344-3644 email:ruben.byerley@yrcfreight.com) and he is manager of environmental services for the corporate owner and operator. He was requesting file review and Vought told him to return call to Vought in one week for update. 2/20/13-Vought-File review by Vought. Vought received two CDs dated 12/13/12 that contained the following files: APEX UST Closure Report(9/20/99) ARCADIS Subsurface Investigation (4/25/12)-reviewed by Vought above ARCADIS UST Investigation and Closure Report(4/25/12)-reviewed by Vought above ARCADIS Groundwater Investigation(10/23/99) ATC Phase I ESA (4/27/09) ATC Phase II ESA (4/27/09) Misc. Documents Relating to Former 3000-Gallon UST (1988) Document Review by Vought of above documents: Misc. Documents Relating to Former 3000-Gallon UST-1988. Proposal to replace 1000-gallon heating oil tank with all associated piping into the garage furnace and fill and abandon second tank near office with concrete slurry. Contamination was minimal because leak was caught almost immediately . 1000-gallon UST was replaced and 3000-gallon UST by office was filled with concrete. UST Closure Report (APEX Environmental)-9/20/99. One 2000-gallon, two (4000-gallon) and one 500 gallon UST were removed on 9/29/98. Diesel fuel used for refueling tractor trailers. English Kills/Maspeth Creek to the north and east and commercial properties to the south and west of site. Facility has two story office building with a large connecting loading dock. Product dispenser was dismantled and product was removed from the USTs. Tanks were reported to be in good condition with minor pitting and no holes. Soil excavation at diesel USTs was 28’x36’x10’deep and seven endpoint samples collected. Used motor oil UST excavation in garage was 12’x6’ and five endpoint samples were collected. 171 tons of soil were removed from the site. Soil endpoint analyticals for alll three tanks were non-detect for VOCs. Report recommends No Further Action. Phase I Environmental Site Assesssment (ATC)-4/27/09. Report notes that YRC Logistics is at site and report prepared for NATMI Trucking Terminals, LLC. Property was occupied by a saw mill and lumber yard before trucking terminal and maintenance facility was built onsite in 1959. Fill port and vent pipe noted adjacent to western exterior wall of the property’s office building. Scrap metal facility is potentially upgradient of site. Report recommends performance of a Phase II investigation. Property currently used as a cross-dock truck terminal by YRC Logistics and a truck maintenance facility is on the northern portion of the property. Phase II Environmental Site Assessment (ATC)-4/27/09. Phase II included a GPR survey and subsuface investigation. GPR found a 6-foot by 6-foot anamoly approximately two feet below grade in the

YRC BROOKLYN (187) (Continued) **1004756458**

area of the observed fill port and vent pipe on the southwestern portion of the property . Five Geoprobe borings installed to a maximum depth of 15'bg. Groundwater at 15'bg. Peat found at 6-10'bg in some borings and groundwater is from 5-8'bg. No petroleum related VOCs in soil and groundwater samples noted 43ppb benzene in sample B1. ATC recommends additional investigation to see if GPR anamoly is a UST and installation of monitoring wells to delineate bezene contamination in groundwater. Groundwater Investigation Report (ARCADIS)-10/23/09. Additional investigation by ARCADIS upon review of Phase II by ATC dated 4/27/09. Metals and PAHs in soils were indicative of historic fills and were not observed in groundwater. Purpose of investigation was to confirm 43pp benzene in B1 groundwater sample in ATC Phase II. Seven borings installed via Geoprobe. Groundwater analyticals show: 1.6ppb benzene (TW5) and 17ppb benzene(TW7). Groundwater samples analyzed for 8260/8270 analyses. Groundwater sample collected at B1 of ATC Phase II was non-detect for benzene. Possible sources of benzene include historic fill materials beneath the site and the close proximity of the sample locations to the heavily polluted Newtown Creek . Report recommends submission to DEC. 2/22/13-Vought-After completion of file review by Vought, spill closed due to minor benzene only detections in groundwater possibly attributable to historic fill and or contaminant contribution fron adjacent Newtown Creek or English Kills. Area also heavy industrialized for past 100 years. Groundwater benzene concentrations are within natural attenuation parameters and likley oxidizing conditions in soil necessary for promotion of aerobic degradation. Vought called YRC Byerly for address of spill closure letter for this spill and Spill 1004888 for same site and 1000-gallon UST TTF (removal discussed above). Received email from YRC Byerly that mailing address for Spill Closure Letter is: YRC Freight Attn: Ruben Byerley (MS-A650) 10990 Roe Ave. Overland Park, KS 66211 Vought sent out Closure Letter to Byerly via mail and email with cc to ARCADIS Kearns. "

Remarks: ""

All Materials:

Site ID:	422759
Operable Unit ID:	1178587
Operable Unit:	01
Material ID:	2172057
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

Name:	YELLOW ROADWAY CORP
Address:	1313 GRAND ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1103727 / 2011-11-30
Facility ID:	1103727
Facility Type:	ER
DER Facility ID:	143819
Site ID:	451299

YRC BROOKLYN (187) (Continued) **1004756458**

DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	2011-03-01
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2011-07-05
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2011-07-05
Spill Record Last Update:	2011-11-30
Spiller Name:	Not reported
Spiller Company:	YELLOW ROADWAY CORP
Spiller Address:	1313 GRAND ST
Spiller Company:	999
Contact Name:	CHRIS MCDONALD
DEC Memo:	"Mike from Reliance. Tank was taken out. 11/30/11- DECPiper reviewd tank closure rpeort. Low level VOC below 6NYCRR Table 375-6.8(a)unrestricted use was detected. SVOC's slightly above most likely related to fill material in area. Based on work to date, this spill is closed. See edocs if warranted. "
Remarks:	"soil contamination found during tank removal, clean up pending"

All Materials:

Site ID:	451299
Operable Unit ID:	1201497
Operable Unit:	01
Material ID:	2198023
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

Name:	TRUCK FACITLITY
Address:	1313 GRAND STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1207926 / 2015-10-02
Facility ID:	1207926
Facility Type:	ER
DER Facility ID:	423271
Site ID:	470986
DEC Region:	2
Spill Cause:	Storm
Spill Class:	D4

YRC BROOKLYN (187) (Continued) **1004756458**

SWIS:	2401
Spill Date:	2012-10-31
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2012-10-31
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2012-10-31
Spill Record Last Update:	2015-10-02
Spiller Name:	Not reported
Spiller Company:	HURRICANE SANDY
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	PHILIP STARK
DEC Memo:	"contractor on site. under control. will send info when completed to DEC Piper. yrc worldwide - overland park, KS - 913-344-5205 left message requesting info. 10/2/15- DEC Piper received closure documentation. Based on work to date, this spill is closed. See Dec docs for report. "
Remarks:	"LEAKED SURING STORM. CLEAN UP WITH BE DONE BY HEPECO"

All Materials:

Site ID:	470986
Operable Unit ID:	1220845
Operable Unit:	01
Material ID:	2219471
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

FINDS:

Registry ID: 110004375872

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits

YRC BROOKLYN (187) (Continued) **1004756458**

issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004756458
Registry ID:	110004375872
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110004375872
Name:	YRC BROOKLYN (187)
Address:	1313 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211

NY MANIFEST:

Name:	ROADWAY EXPRESS INC
Address:	1313 GRAND ST
City,State,Zip:	BROOKLYN, NY 11211
Country:	USA
EPA ID:	NYD095769782
Facility Status:	Not reported
Location Address 1:	1313 GRAND ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11211
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD095769782
Mailing Name:	ROADWAY EXPRESS INC
Mailing Contact:	ROADWAY EXPRESS INC
Mailing Address 1:	1313 GRAND STREET
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11211
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7188215410

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported

YRC BROOKLYN (187) (Continued) **1004756458**

Generator Ship Date:	11/28/2007
Trans1 Recv Date:	11/28/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/04/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD982270506
TSDF ID 2:	Not reported
Manifest Tracking Number:	000092800SKS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	14
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Waste Code:	D039
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

SPDES:

Name:	YRC INC DBA YRC FREIGHT INC (187)
Address:	1313 GRAND AVE
City,State,Zip:	BROOKLYN, BOROUGH OF, NY 11211
Permit Number:	NYR00D143
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor
Primary Facility SIC Code:	4213
State Water Body Name:	ENGLISH KILLS TO NEWTON CREEK
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported

YRC BROOKLYN (187) (Continued) **1004756458**

UDF1:	Not reported
Lat/Long:	40.717 / -73.924
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	YRC INC
Non-Gov Permit Street Address:	YRC INC DBA YRC FREIGHT INC (187)
Non-Gov Permit Supplemental Location:	10990 ROE AVE MS A650
Non-Gov Permit City:	OVERLAND PARK
Non-Gov Permit State Code:	KS
Non-Gov Permit Zip Code:	66211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	YRC INC
Non-Gov Facility Street Address:	YRC INC DBA YRC FREIGHT INC (187)
Non-Gov Facility Supplemental Location:	10990 ROE AVE MS A650
Non-Gov Facility City:	OVERLAND PARK
Non-Gov Facility State Code:	KS
Non-Gov Facility Zip Code:	66211
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	YRC INC DBA YRC FREIGHT INC (187)
Address:	1313 GRAND AVE
City,State,Zip:	BROOKLYN, BOROUGH OF, NY 11211
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	YRC INC
Non-Gov Permit Street Address:	10990 ROE AVE MS A650
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	OVERLAND PARK
Non-Gov Permit State Code:	KS
Non-Gov Permit Zip Code:	66211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	YRC INC
Non-Gov Facility Street Address:	YRC INC DBA YRC FREIGHT INC (187)
Non-Gov Facility Supplemental Location:	10990 ROE AVE MS A650
Non-Gov Facility City:	OVERLAND PARK
Non-Gov Facility State Code:	KS
Non-Gov Facility Zip Code:	66211
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported

YRC BROOKLYN (187) (Continued) **1004756458**

Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	YRC INC DBA YRC FREIGHT INC (187)
Address:	1313 GRAND AVE
City,State,Zip:	BROOKLYN, BOROUGH OF, NY 11211
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Stormwater SWPPP Location
Non-Gov Permit Org Formal Name:	YRC INC
Non-Gov Permit Street Address:	YRC INC DBA YRC FREIGHT INC (187)
Non-Gov Permit Supplemental Location:	557 EAST TALLMADGE AVE
Non-Gov Permit City:	AKRON
Non-Gov Permit State Code:	OH
Non-Gov Permit Zip Code:	44310
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	YRC INC
Non-Gov Facility Street Address:	YRC INC DBA YRC FREIGHT INC (187)
Non-Gov Facility Supplemental Location:	10990 ROE AVE MS A650
Non-Gov Facility City:	OVERLAND PARK
Non-Gov Facility State Code:	KS
Non-Gov Facility Zip Code:	66211
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	YRC INC DBA YRC FREIGHT INC (187)
Address:	1313 GRAND AVE
City,State,Zip:	BROOKLYN, BOROUGH OF, NY 11211
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	YRC INC
Non-Gov Facility Street Address:	YRC INC DBA YRC FREIGHT INC (187)
Non-Gov Facility Supplemental Location:	10990 ROE AVE MS A650
Non-Gov Facility City:	OVERLAND PARK
Non-Gov Facility State Code:	KS
Non-Gov Facility Zip Code:	66211

YRC BROOKLYN (187) (Continued) **1004756458**

State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

AA187 **NEO RAY LIGHTING PRODUCTS** **RCRA-VSQG** **1000139537**
SSE **537 JOHNSON AVENUE** **NY LTANKS** **NYD001502509**
1/4-1/2 **BROOKLYN, NY 11237** **NY UST**
0.283 mi. **ICIS**
1494 ft. **Site 3 of 3 in cluster AA** **US AIRS**
FINDS
Relative: Higher **ECHO**
NY MANIFEST
Actual: 14 ft.

RCRA-VSQG:

Date Form Received by Agency:	20070101
Handler Name:	NEO-RAY PRODUCTIONS INC
Handler Address:	537 JOHNSON AVE
Handler City,State,Zip:	BROOKLYN, NY 11237
EPA ID:	NYD001502509
Contact Name:	BOB BLUMEN
Contact Address:	JOHNSON AVE
Contact City,State,Zip:	BROOKLYN, NY 11237
Contact Telephone:	718-456-7400
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Not reported
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	JOHNSON AVE
Mailing City,State,Zip:	BROOKLYN, NY 11237
Owner Name:	CORPORATION NEO-RAY PRODUCTIONS
Owner Type:	Private
Operator Name:	CORPORATION NEO-RAY PRODUCTIONS
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CORPORATION NEO-RAY PRODUCTIONS
Legal Status:	Private
Date Became Current:	20010101
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CORPORATION NEO-RAY PRODUCTIONS
Legal Status:	Private
Date Became Current:	20010101
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CORPORATION NEO-RAY PRODUCTIONS
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CORPORATION NEO-RAY PRODUCTIONS
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990714
Handler Name: NEO-RAY PRODUCTIONS INC	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20050722
Handler Name: NEO-RAY PRODUCTIONS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: NEO-RAY PRODUCTIONS INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: NEO-RAY PRODUCTIONS INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20000811
Handler Name: NEO-RAY PRODUCTIONS INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Electronic Manifest Broker: Not reported

Receive Date: 20010101
Handler Name: NEO-RAY LIGHTING
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 335129
NAICS Description: OTHER LIGHTING EQUIPMENT MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19901024
Actual Return to Compliance Date:	19910208
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19910115
Enforcement Identifier:	001
Date of Enforcement Action:	19901130
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	NYDEC
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20031007
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYYWG
Evaluation Responsible Sub-Organization: R2
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19901024
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYDEC
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19910208
Scheduled Compliance Date: 19910115
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20070906
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYSAN
Evaluation Responsible Sub-Organization: R2
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

LTANKS:

Name:	537 JOHNSON AV
Address:	537 JOHNSON AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	8806105 / 1992-10-07
Facility ID:	8806105
Site ID:	155588
Spill Date:	1988-10-19
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	1992-10-07
SWIS:	2401
Investigator:	BATTISTA
Referred To:	Not reported
Reported to Dept:	1988-10-19
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1988-10-31
Spill Record Last Update:	2003-10-08
Spiller Name:	Not reported
Spiller Company:	NEO RAY LIGHTING
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	131784
DEC Memo:	""
Remarks:	"2K TK SYSTEM FAILED PETRO-TITE, L R = -1.284 GPH."

All TTF:

Facility ID:	8806105
Spill Number:	8806105
Spill Tank Test:	1534783
Site ID:	155588
Tank Number:	Not reported
Tank Size:	0
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 155588
Operable Unit ID: 922935
Operable Unit: 01
Material ID: 454460
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: L
Recovered: .00
Oxygenate: Not reported

UST:
Name: NEO-RAY PRODUCTS INC
Address: 537 JOHNSON AVE
City,State,Zip: BROOKLYN, NY 11237
Id/Status: 2-085308 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: 590763.85405
UTM Y: 4507004.06136
Site Type: Other

Affiliation Records:
Site Id: 2037
Affiliation Type: Facility Owner
Company Name: MITCHELL CONN
Contact Type: Not reported
Contact Name: Not reported
Address1: 537 JOHNSON AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11237
Country Code: 001
Phone: (718) 456-7400
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Site Id: 2037
Affiliation Type: Mail Contact
Company Name: NEO-DAY PRODUCTS
Contact Type: Not reported
Contact Name: Not reported
Address1: 537 JOHNSON AVENUE

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Address2:	537 JOHNSON AVENUE
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 456-7400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	2037
Affiliation Type:	Facility Operator
Company Name:	NEO-RAY PRODUCTS INC
Contact Type:	Not reported
Contact Name:	NEO-RAY PRODUCTS INC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 456-7400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	2037
Affiliation Type:	Emergency Contact
Company Name:	MITCHELL CONN
Contact Type:	Not reported
Contact Name:	ANGELO ROSARIO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 456-7400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	00A
Tank ID:	3297
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	2000
Install Date:	Not reported
Date Tank Closed:	04/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: 03
Date Test: 06/01/1998
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None

Tank Number: 00B
Tank ID: 3298
Tank Status: Closed Prior to Micro Conversion, 03/91
Material Name: Closed Prior to Micro Conversion, 03/91
Capacity Gallons: 2000
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: ZZ
Date Test: 03/01/1999
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 00C
Tank ID: 3299
Tank Status: Tank Converted to Non-Regulated Use
Material Name: Tank Converted to Non-Regulated Use

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Capacity Gallons:	1080
Install Date:	Not reported
Date Tank Closed:	08/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	03
Date Test:	03/01/1999
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number:	00D
Tank ID:	3300
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	1750
Install Date:	Not reported
Date Tank Closed:	04/01/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	03
Date Test:	03/01/1999
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

ICIS:

Enforcement Action ID:	NY000A0000261040002300006
FRS ID:	110012589822
Action Name:	ATLITE INC 360470081400006
Facility Name:	ATLITE INC
Facility Address:	537 JOHNSON AVE BROOKLYN, NY 11237
Enforcement Action Type:	Administrative Order
Facility County:	KINGS
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	3471
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	40.70893
Longitude in Decimal Degrees:	-73.925
Permit Type Desc:	Not reported
Program System Acronym:	NY0000002610400023
Facility NAICS Code:	332813
Tribal Land Code:	Not reported

Enforcement Action ID:	NY000A0000261040002300004
FRS ID:	110012589822
Action Name:	ATLITE INC 360470081400004
Facility Name:	ATLITE INC
Facility Address:	537 JOHNSON AVE BROOKLYN, NY 11237
Enforcement Action Type:	Administrative Order
Facility County:	KINGS
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	3471
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	40.70893
Longitude in Decimal Degrees:	-73.925
Permit Type Desc:	Not reported
Program System Acronym:	NY0000002610400023
Facility NAICS Code:	332813
Tribal Land Code:	Not reported

Enforcement Action ID:	HQ-100018946
FRS ID:	110012589822
Action Name:	Neo-Ray Products Inc.
Facility Name:	NEO RAY LIGHTING PRODUCTS
Facility Address:	537 JOHNSON AVENUE BROOKLYN, NY 11237
Enforcement Action Type:	Notice of Noncompliance Issued
Facility County:	KINGS
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NONC
Facility SIC Code:	3646
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	40.708807
Longitude in Decimal Degrees:	-73.925748
Permit Type Desc:	Not reported

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Program System Acronym: 23483
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 02-1988-0136
FRS ID: 110012589822
Action Name: NEO-RAY LIGHTING SYSTEMS INC
Facility Name: NEO RAY LIGHTING PRODUCTS
Facility Address: 537 JOHNSON AVENUE
BROOKLYN, NY 11237
Enforcement Action Type: CAA 113 Notice Of Violation
Facility County: KINGS
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 113
Facility SIC Code: 3646
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 40.708807
Longitude in Decimal Degrees: -73.925748
Permit Type Desc: Not reported
Program System Acronym: 23483
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 02-000F000360470081400002
FRS ID: 110012589822
Action Name: ATLITE INC 360470081400002
Facility Name: ATLITE INC
Facility Address: 537 JOHNSON AVE
BROOKLYN, NY 11237
Enforcement Action Type: Notice of Violation
Facility County: KINGS
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3471
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 40.70893
Longitude in Decimal Degrees: -73.925
Permit Type Desc: Not reported
Program System Acronym: NY0000002610400023
Facility NAICS Code: 332813
Tribal Land Code: Not reported

Facility Name: NEO-RAY PRODUCTS INC
Address: 537 JOHNSON AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3646

Facility Name: NEO-RAY PRODUCTS INC
Address: 537 JOHNSON AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

SIC Code: 3646

Facility Name: NEO-RAY PRODUCTS INC
Address: 537 JOHNSON AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3646

Facility Name: NEO-RAY PRODUCTS INC
Address: 537 JOHNSON AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3646

Facility Name: NEO-RAY PRODUCTS INC
Address: 537 JOHNSON AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3646

US AIRS (AFS):
Envid: 1000139537
Region Code: 02
County Code: NY047
Programmatic ID: AIR NY0000002610400023
Facility Registry ID: 110012589822
D and B Number: Not reported
Facility Site Name: ATLITE INC
Primary SIC Code: 3471
NAICS Code: 332813
Default Air Classification Code: SMI
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS (AFS):
Region Code: 02
Programmatic ID: AIR NY0000002610400023
Facility Registry ID: 110012589822
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-06-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 02
Programmatic ID: AIR NY0000002610400023
Facility Registry ID: 110012589822
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Activity Date: 1985-08-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 02
Programmatic ID: AIR NY0000002610400023
Facility Registry ID: 110012589822
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-03-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 02
Programmatic ID: AIR NY0000002610400023
Facility Registry ID: 110012589822
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-12-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 02
Programmatic ID: AIR NY0000002610400023
Facility Registry ID: 110012589822
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-05-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 02
Programmatic ID: AIR NY0000002610400023
Facility Registry ID: 110012589822
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-05-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 02
Programmatic ID: AIR NY0000002610400023
Facility Registry ID: 110012589822

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-06-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 02
Programmatic ID: AIR NY0000002610400023
Facility Registry ID: 110012589822
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-01-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 02
Programmatic ID: AIR NY0000002610400023
Facility Registry ID: 110012589822
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-12-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 02
Programmatic ID: AIR NY0000002610400023
Facility Registry ID: 110012589822
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-08-15 00:00:00
Activity Status Date: 1985-08-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 02
Programmatic ID: AIR NY0000002610400023
Facility Registry ID: 110012589822
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-09-04 00:00:00
Activity Status Date: 1985-09-04 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

Region Code:	02
Programmatic ID:	AIR NY0000002610400023
Facility Registry ID:	110012589822
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1985-07-22 00:00:00
Activity Status Date:	1985-07-22 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

FINDS:
Registry ID: 110012589822

Click Here:

Environmental Interest/Information System:
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.
AIR SYNTHETIC MINOR
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and

NEO RAY LIGHTING PRODUCTS (Continued) **1000139537**

it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000139537
Registry ID:	110012589822
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110012589822
Name:	ATLITE INC
Address:	537 JOHNSON AVE
City,State,Zip:	BROOKLYN, NY 11237

NY MANIFEST:

Name:	NEO RAY
Address:	537 JOHNSON AVENUE
City,State,Zip:	BROOKLYN, NY 11237-0000
Country:	USA
EPA ID:	NYD001502509
Facility Status:	Not reported
Location Address 1:	537 JOHNSON AVENUE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	RIDGEWOOD
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD001502509
Mailing Name:	NEO RAY
Mailing Contact:	NEO RAY
Mailing Address 1:	100 ANDREWS RD
Mailing Address 2:	Not reported
Mailing City:	SCHENECTADY
Mailing State:	NY
Mailing Zip:	12307
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7184567400

AD188 **140 MORGAN AVE/BROOKLYN** **NY LTANKS S102145602**
SW **140 MORGAN AVENUE** **NY Spills N/A**
1/4-1/2 **BROOKLYN, NY**
0.308 mi.
1627 ft. **Site 1 of 2 in cluster AD**

Relative:
Lower

Actual:
13 ft.

LTANKS:

Name:	140 MORGAN AVE/BROOKLYN
Address:	140 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY

140 MORGAN AVE/BROOKLYN (Continued) **S102145602**

Spill Number/Closed Date:	8910515 / 1990-02-03
Facility ID:	8910515
Site ID:	113471
Spill Date:	1990-01-30
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Not reported
Cleanup Ceased:	1990-02-03
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	1990-02-02
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1990-02-07
Spill Record Last Update:	2003-04-09
Spiller Name:	Not reported
Spiller Company:	PETRO HEAT & POWER
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	99025
DEC Memo:	""
Remarks:	"CUSTOMER OVER ORDERED & FUEL GAUGE WAS BROKEN, CLEANED UP BY PETRO HEAT & POWER SPILL TEAM."

All Materials:

Site ID:	113471
Operable Unit ID:	937444
Operable Unit:	01
Material ID:	443617
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	3.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPILLS:

Name:	GORDON INTERNATIONAL/BKLN
Address:	140 MORGAN AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	8909334 / 1989-12-26
Facility ID:	8909334
Facility Type:	ER

140 MORGAN AVE/BROOKLYN (Continued) **S102145602**

DER Facility ID:	99025
Site ID:	169713
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Spill Date:	1989-12-23
Investigator:	TAYLOR
Referred To:	Not reported
Reported to Dept:	1989-12-26
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	1989-12-26
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1990-01-03
Spill Record Last Update:	1990-02-14
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"SATURDAY ROUTINE DELIVERY MADE - CUSTOMER REPORTED SPILL ON ASPHALT. PETRO TEAM RESPONDED - TYREE BROS CALLED TO CLEAN"

All Materials:

Site ID:	169713
Operable Unit ID:	934266
Operable Unit:	01
Material ID:	442499
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AC189 **JOYVA VACANT LOT** **NY VCP** **S113922066**
South **498 JOHNSON AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY 11237**
0.309 mi.
1630 ft. **Site 2 of 2 in cluster AC**

Relative: VCP:
Lower

Name:	JOYVA VACANT LOT
Address:	498 JOHNSON AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Program Type:	VCP
Site Code:	56948

Actual:
13 ft.

JOYVA VACANT LOT (Continued) **S113922066**

HW Code:	V00332
Site Class:	N
SWIS:	2401
Region:	2
Town:	New York City
Acres:	Not reported
Date Record Added:	11/30/2000
Date Record Updated:	07/14/2004
Updated By:	VCPTRANS
Site Description:	"The site did not qualify for addition to the Registry of Inactive Hazardous Disposal Sites"
Env Problem:	""
Health Problem:	""
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	6
Sub Type:	ZZZ
Owner Name:	Not reported
Owner Company:	Joyva Corporation
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

AE190 **BROWNING FERRIS** **NY SWF/LF** **S102639161**
ESE **72 SCOTT AVE** **NY LTANKS** **N/A**
1/4-1/2 **BROOKLYN, NY 11237** **NY CBS**
0.310 mi. **NY AST**
1637 ft. **Site 1 of 3 in cluster AE** **NY CBS AST**
NY SWRCY
Relative: **NY Spills**
Higher **NY MANIFEST**
NY SPDES
Actual:
15 ft.

SWF/LF:

Name:	BFI - ALLIED (WM - STEEL LOS)
Address:	72 SCOTT AVE
City,State,Zip:	BROOKLYN, NY 11237

BROWNING FERRIS (Continued) **S102639161**

Flag:	INACTIVE
Region Code:	2
Phone Number:	7184974000
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	RUSS KRUK
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24T99]
Active:	No
East Coordinate:	590900
North Coordinate:	4507300
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6101-00120
Authorization Date:	1/7/1991
Expiration Date:	1/31/2002
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

LTANKS:

Name:	BROWNING FERRIS INDUSTRIA
Address:	72 SCOTT AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9703477 / 1997-06-25
Facility ID:	9703477
Site ID:	144360
Spill Date:	1997-06-20
Spill Cause:	Tank Failure
Spill Source:	Commercial Vehicle
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	1997-06-20
CID:	312
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1997-06-20
Spill Record Last Update:	1997-06-26

BROWNING FERRIS (Continued) **S102639161**

Spiller Name:	Not reported
Spiller Company:	TRUCK-LOAD EXPRESS
Spiller Address:	901 KCK WAY
Spiller County:	001
Spiller Contact:	TIM HORKAY
Spiller Phone:	(718) 497-1282
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	166356
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MARTINKAT "
Remarks:	"PRIVATE HAULER HAD A RUPTURED FUEL TANK IN THE YARD OF BFI - CLEANED UP"

All Materials:

Site ID:	144360
Operable Unit ID:	1049436
Operable Unit:	01
Material ID:	336359
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	25.00
Oxygenate:	Not reported

Name:	72 SCOTT AVE
Address:	72 SCOTT AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9708693 / 2004-10-20
Facility ID:	9708693
Site ID:	144361
Spill Date:	1997-10-24
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	1997-10-24
CID:	322
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1997-10-24
Spill Record Last Update:	2004-10-20
Spiller Name:	TYREE
Spiller Company:	BFI - 72 SCOTT
Spiller Address:	72 SCOTT AVE
Spiller County:	001

BROWNING FERRIS (Continued) **S102639161**

Spiller Contact: TYREE - GINA
Spiller Phone: (516) 249-3150
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 166356
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was AUSTIN 3/11/03 - SAMUEL- File available in active unassigned spill files. 8/18/2004 Consultant called to say there is a DEC Consent Order on this site which covers the tank. Tank was closed in place. Sangesland requested copies of soil boring/testing done under the tank to prove it is clean. When this information is submitted, DEC will closed the case out. 9/14/2004 Consultant called to say they can not find any historical soil boring work, so they have contracted with Impact Environmental to do new soil borings around the tank and sample them to EPA Method 8260. 10/14/2004 Sangesland reviewed a submittal from Maureen Frazier of Schillinger Environmental. They have hired Impact Environmental to do soil borings. A report should be submitted to DEC by 10/29/2004. 10/20/2004 Impact Environmental called in a new spill on the site. Found Diesel contaminated Soil Ref Spill #0408008 Both of these spills 0408008 and 9708693 have been closed and referred back to the original spill # 9702085 -"
Remarks: ""

All TTF:
Facility ID: 9708693
Spill Number: 9708693
Spill Tank Test: 1545422
Site ID: 144361
Tank Number: 1
Tank Size: 4000
Material: Not reported
EPA UST: Not reported
UST: Not reported
Cause: Not reported
Source: Not reported
Test Method: 20
Test Method 2: USTest 2000/P/LL plus USTest 2000/U
Leak Rate: .00
Gross Fail: F
Modified By: Spills
Last Modified Date: Not reported

CBS:
Name: BROOKLYN STEEL & TUBE CORPORATION
Address: 72 SCOTT AVENUE
City,State,Zip: BROOKLYN, NY 11237
CBS Number: 2-000150
Program Type: CBS
Facility Status: Unregulated/Closed
Expiration Date: Not reported
Dec Region: 2
UTMX: 591001.83018
UTMY: 4507116.31529

AST:
Name: BROOKLYN STEEL & TUBE CORPORATION

BROWNING FERRIS (Continued) **S102639161**

Address:	72 SCOTT AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-000150
Program Type:	CBS
UTM X:	591001.83018
UTM Y:	4507116.31529
Expiration Date:	N/A
Site Type:	Manufacturing (Other than Chemical)/Processing

Tank Info:

Tank Number:	1
Tank Id:	187695
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	04/01/1952
Capacity Gallons:	15000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	11/01/1990
Register:	True
Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

CBS AST:

CBS Number:	2-000150
ICS Number:	2-125074
PBS Number:	Not reported
MOSF Number:	Not reported
SPDES Number:	Not reported
Facility Status:	IN SERVICE
Facility Type:	D
Telephone:	(718) 497-2100
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	07/19/1991
Total Capacity of All Active Tanks(gal):	0
Operator:	R.M. HANNA
Emergency Contact:	R.F. FINLEY
Emergency Phone:	(718) 497-2100
Owner Name:	BROOKLYN STEEL & TUBE CORPORATION
Owner Address:	72-88 SCOTT AVE.
Owner City,St,Zip:	BROOKLYN, NY 11237
Owner Telephone:	(718) 497-2100
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	BROOKLYN STEEL & TUBE CORPORATION
Mail Contact Addr:	72-88 SCOTT AVE.
Mail Contact Addr2:	Not reported

BROWNING FERRIS (Continued) **S102639161**

Mail Contact Contact:	R.F. FINLEY
Mail Contact City,St,Zip:	BROOKLYN, NY 11237
Mail Phone:	(718) 497-2100
Tank Id:	1
CAS Number:	7664939
Federal ID:	Not reported
Tank Status:	Not reported
Install Date:	04/52
Tank Closed:	11/90
Capacity (Gal):	15000
Chemical:	Sulfuric acid
Tank Location:	Indoors, Belowground
Tank Type:	Steel/carbon steel
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	3
Date Entered:	07/19/1989
Certified Date:	07/19/1989
Substance:	Not reported
Internal Protection:	Not reported
External Protection:	Not reported
Pipe Location:	Not reported
Pipe Type:	Wrapped Steel
Pipe Internal:	Not reported
Pipe External:	Not reported
Pipe Flag:	False
Leak Detection:	Not reported
Overfill Protection:	Not reported
Haz Percent:	0
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	03/15/91
Is It There:	False
Delinquent:	False
Date Expired:	07/19/91
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	03/15/1991

SWRCY:

Name:	BFI - ALLIED (WM - STEEL LOS)
Address:	72 SCOTT AVE
City,State,Zip:	BROOKLYN, NY 11237
Region:	2
Facility Address 2:	Not reported
Phone Number:	7184974000
Owner Type:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner Address 2:	Not reported

BROWNING FERRIS (Continued) **S102639161**

Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	RUSS KRUK
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	RHRF - registration
Activity Number:	[24M99]
Active:	No
East Coordinate:	590900
North Coordinate:	4507300
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Permit #:	2-6101-00120
Auth. Date:	1/7/1991
Expiration Date:	1/31/2002
Waste Types:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Last Date:	Not reported

Name:	J.L.J. RECYCLING CONTRACTORS CORP.
Address:	72 SCOTT AVENUE
City,State,Zip:	BROOKLYN, NY 0
Region:	2
Facility Address 2:	Not reported
Phone Number:	7184974000
Owner Type:	Not reported
Owner Name:	Joseph Lostritto
Owner Address:	72 Scott Ave.
Owner Address 2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	RHRF - registration
Activity Number:	[00M00]
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Permit #:	2-6104-00022/00001-0
Auth. Date:	Not reported
Expiration Date:	Not reported
Waste Types:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Last Date:	Not reported

BROWNING FERRIS (Continued) **S102639161**

SPILLS:

Name:	BFI
Address:	72 SCOTT ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0408008 / 2004-10-20
Facility ID:	0408008
Facility Type:	ER
DER Facility ID:	267814
Site ID:	332606
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	2401
Spill Date:	2004-10-19
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2004-10-19
CID:	407
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2004-10-19
Spill Record Last Update:	2004-10-20
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	TOM FALATO
DEC Memo:	"This spill has been consolidated with an older open spill report: Both spill #0408008 and spill #9708693 have been closed and referred to #9702085"
Remarks:	"Detected contamination in the soil."

All Materials:

Site ID:	332606
Operable Unit ID:	1094837
Operable Unit:	01
Material ID:	574970
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	BROWNING FERRIS INDUST
Address:	72 SCOTT AVENUE
City,State,Zip:	BROOKLYN, NY

BROWNING FERRIS (Continued) **S102639161**

Spill Number/Closed Date:	9703275 / 1997-06-16
Facility ID:	9703275
Facility Type:	ER
DER Facility ID:	166356
Site ID:	144359
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	2401
Spill Date:	1997-06-13
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	1997-06-16
CID:	252
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-06-16
Spill Record Last Update:	1997-06-18
Spiller Name:	TIM HORKAY
Spiller Company:	BROWNING FERRIS INDUST
Spiller Address:	72 SCOTT AVE
Spiller Company:	001
Contact Name:	TIM HORKAY
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was KRIMGOLD "
Remarks:	"SPILL WAS CAUSED BY HYDRAULIC HOSE COMING LOOSE-SPILL HAS BEEN CLEANED UP"

All Materials:

Site ID:	144359
Operable Unit ID:	1049274
Operable Unit:	01
Material ID:	336171
Material Code:	0010
Material Name:	hydraulic oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20.00
Units:	G
Recovered:	20.00
Oxygenate:	Not reported

Name:	BFI
Address:	72 SCOTT AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9702085 / 2004-12-03
Facility ID:	9702085
Facility Type:	ER
DER Facility ID:	166356
Site ID:	144358

BROWNING FERRIS (Continued) **S102639161**

DEC Region:	2
Spill Cause:	Unknown
Spill Class:	B3
SWIS:	2401
Spill Date:	1997-05-18
Investigator:	JMROMMEL
Referred To:	Not reported
Reported to Dept:	1997-05-18
CID:	370
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-05-18
Spill Record Last Update:	2004-12-08
Spiller Name:	DAVID MCLAUGHLIN
Spiller Company:	BFI
Spiller Address:	136 SICKER RD
Spiller Company:	001
Contact Name:	TIM HORKAY
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL 3/11/03 - SAMUEL- File available in active unassigned spill files. 4/12/04-Vought-Spill transferred from Tomasello to Rommel as per Rommel. 10/20/2004 Sangesland has consolidated 3 spills into one: Spill 9708693 - has been closed and cross ref to this spill #9702085 Spill 0408008 - new soil boring contamination - closed & ref to 9702085 12/3/04 Reviewed Impact Enmtl report dated October 2004. NFA letter mailed to BFI Rommel"
Remarks:	"caller removing a tank and found soil spill contained in soil will also excavate soil and remove"

All Materials:

Site ID:	144358
Operable Unit ID:	1044796
Operable Unit:	01
Material ID:	335019
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	PARKING GARAGE
Address:	72 SCOTT AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0609017 / 2006-11-07
Facility ID:	0609017
Facility Type:	ER
DER Facility ID:	166356

BROWNING FERRIS (Continued) **S102639161**

Site ID:	373114
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Spill Date:	2006-11-06
Investigator:	HRPATEL
Referred To:	Not reported
Reported to Dept:	2006-11-06
CID:	408
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-11-06
Spill Record Last Update:	2006-11-07
Spiller Name:	DERRICK BEAUREGAURD
Spiller Company:	TRUCK #1618
Spiller Address:	1160 RANDALL AVE
Spiller Company:	001
Contact Name:	SAM RIVERA
DEC Memo:	"11/07/06-Hiralkumar Patel. received during off hours duty. spoke with Derrick. as per Derrick, there was only diesel spill, not #2 oil spill. it was actually 2 grade diesel. spill happened due to ruptured saddle tank. spilled on concrete parking lot and it all contained. Castleton was on scene. spill cleaned up by absorbent pads. no soil/sewer/drain affected. all cleaned up. spoke with jake at castleton. all cleaned up."
Remarks:	"THE AMOUNT IS 1/2 AND 1/2 OF EACH MATERIAL; TRUCK IS A FUEL TANKER AND WAS CARRYING 2000 GALLONS; SENT EMERGENCY SPILL REPONSE CASTLETON ENVIRO. SPOKE WITH JAKE # 973-332-4972; HAS BEEN CONTAINED; WILL BE CLEANED BY CASTLETON ENVIRO. ;"

All Materials:

Site ID:	373114
Operable Unit ID:	1130837
Operable Unit:	01
Material ID:	2120510
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	373114
Operable Unit ID:	1130837
Operable Unit:	01
Material ID:	2120511
Material Code:	0008
Material Name:	diesel

BROWNING FERRIS (Continued) **S102639161**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	BROWNING FERRIS INDUSTRIE
Address:	72 SCOTT AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9709681 / 1997-11-20
Facility ID:	9709681
Facility Type:	ER
DER Facility ID:	166356
Site ID:	199905
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	1997-11-20
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	1997-11-20
CID:	266
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-11-20
Spill Record Last Update:	1997-11-21
Spiller Name:	JIM VAN WOERT
Spiller Company:	BROWNING FERRIS INDUSTRIE
Spiller Address:	72 SCOTT AVENUE
Spiller Company:	001
Contact Name:	JIM VAN WOERT
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG CALLED UP JIM VAN @ BROWNING FERRIS & CONFIRMED CLEAN-UP. NO IMPACT TO FLOOR DRAINS ON SIDEWALKS."
Remarks:	"BROKEN HYDRAULIC LINE ON ROLL-OFF TRUCK. ONTO CONCRETE AND ASPHALT. CLEANED UP."

All Materials:

Site ID:	199905
Operable Unit ID:	1056009
Operable Unit:	01
Material ID:	328016
Material Code:	0010
Material Name:	hydraulic oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	40.00
Units:	G

BROWNING FERRIS (Continued) **S102639161**

Recovered: 40.00
Oxygenate: Not reported

NY MANIFEST:
Name: BROWNING FERRIS
Address: 72 SCOTT AVE
City,State,Zip: BROOKLYN, NY 11237-0000
Country: USA
EPA ID: NYR000064568
Facility Status: Not reported
Location Address 1: 72 SCOTT AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11237
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYR000064568
Mailing Name: BROWNING FERRIS
Mailing Contact: JIM VAN WOERT
Mailing Address 1: 72 SCOTT AVE
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11237
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 7184974000

SPDES:

Name: BFI WASTE SYSTEMS OF NEW JERSEY INC
Address: 72 SCOTT AVE
City,State,Zip: BROOKLYN, NY 11237
Permit Number: NYR00C271
State-Region: 02
Expiration Date: 03/31/2012
Current Major Minor Status: Minor
Primary Facility SIC Code: 4212
State Water Body Name: NEWTOWN CREEK
Limit Set Status Flag: Active
Total Actual Average Flow(MGD): Not reported
Total App Design Flow(MGD): Not reported
UDF1: Not reported
Lat/Long: +40.709944 / -73.922306
DMR Cognizant Official: Not reported
UDF2: Not reported
UDF3: Not reported
FIPS County Code: NY047

Non-Gov Permit Affiliation Type Desc: DMR Mailing Address
Non-Gov Permit Org Formal Name: BFI WASTE SYSTEMS OF NEW JERSEY INC

BROWNING FERRIS (Continued) **S102639161**

Non-Gov Permit Street Address:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Non-Gov Permit Supplemental Location:	1057 LOWER SOUTH ST
Non-Gov Permit City:	BRONX
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10454
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	BFI SCOTT AVE
Non-Gov Facility Street Address:	72 SCOTT AVE
Non-Gov Facility Supplemental Location:	Not reported
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Name:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Address:	72 SCOTT AVE
City,State,Zip:	BROOKLYN, NY 11237
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Non-Gov Permit Street Address:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Non-Gov Permit Supplemental Location:	1057 LOWER SOUTH ST
Non-Gov Permit City:	BRONX
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10454
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Non-Gov Facility Street Address:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Non-Gov Facility Supplemental Location:	920 E 132ND ST
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10454
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Name:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Address:	72 SCOTT AVE
City,State,Zip:	BROOKLYN, NY 11237
UDF2:	Not reported

BROWNING FERRIS (Continued) **S102639161**

UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Non-Gov Permit Street Address:	920 E 132ND ST
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BRONX
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10454
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	BFI SCOTT AVE
Non-Gov Facility Street Address:	72 SCOTT AVE
Non-Gov Facility Supplemental Location:	Not reported
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Address:	72 SCOTT AVE
City,State,Zip:	BROOKLYN, NY 11237
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Non-Gov Permit Street Address:	920 E 132ND ST
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BRONX
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10454
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Non-Gov Facility Street Address:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Non-Gov Facility Supplemental Location:	920 E 132ND ST
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10454
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

BROWNING FERRIS (Continued) **S102639161**

Name:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Address:	72 SCOTT AVE
City,State,Zip:	BROOKLYN, NY 11237
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	BFI SCOTT AVE
Non-Gov Facility Street Address:	72 SCOTT AVE
Non-Gov Facility Supplemental Location:	Not reported
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Address:	72 SCOTT AVE
City,State,Zip:	BROOKLYN, NY 11237
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Non-Gov Facility Street Address:	BFI WASTE SYSTEMS OF NEW JERSEY INC
Non-Gov Facility Supplemental Location:	920 E 132ND ST
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10454
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported

BROWNING FERRIS (Continued) **S102639161**

Name: Not reported
Contacts Title: Not reported
Contacts Email: Not reported
NOI Submission Date: Not reported

AE191 **255 RANDOLPH STREET** **NY BROWNFIELDS S120706187**
ESE **255 RANDOLPH ST** **NY MANIFEST N/A**
1/4-1/2 **BROOKLYN, NY 11237**
0.325 mi.
1716 ft. **Site 2 of 3 in cluster AE**

Relative: **Higher**
Actual: **16 ft.**

BROWNFIELDS:
Name: 255 RANDOLPH STREET
Address: 255 RANDOLPH STREET
City,State,Zip: BROOKLYN, NY 11237
Program: BCP
Site Code: 534911
Acres: 0.427
HW Code: C224247
SWIS: 2401
Town: New York City
Record Added Date: 10/25/2016
Record Updated Date: 01/25/2021
Update By: JCGRATHW
Site Description: "Location: The site is located in an urban area on the north side of Randolph Street just east of Scott Avenue in an industrial section of Brooklyn. Site Features: Most of the 17,741 square foot (SF) property is covered with a 15,000 SF warehouse building with a small dirt lot located on the north side of the building. The site is adjacent to the Long Island Railroad (LIRR) right-of-way. Current Zoning and Land Use: The lot and the surrounding area are currently zoned M3-1 (Manufacturing/Industrial). There are no residential uses within the surrounding area. The property is currently vacant. Past Use of the Site: The site was last used for warehousing by Handy Lee Enterprises, an importer of Asian food products, from approximately 2006 until August 2015. The City Directory Abstract states the site was occupied by a sheet metal fabricator in the 1990s. Prior to this, according to Sanborn Fire Insurance Maps, the site was associated with the manufacture of ammonia for many decades, from at least 1907 to 1985. Sanborn maps from 1933 through 2007 show two exterior steel ammonia tanks and an acid storage area on adjacent property to the east, with no indication of production operations within the site. However, the 1907 Sanborn map shows the manufacturing facility in a different location on the block, with components of such facility within the footprint of the current site (acid tank and evaporation pan) or partially within the footprint of the current Site (storage area, grinding and mixing area, acid chambers). None of the Sanborn maps or other historical resources indicate the use or storage of chlorinated solvents, which are key contaminants of concern at the site. Site Geology and Hydrogeology: The depth to groundwater is approximately 15 feet below grade, with the flow towards the north."
Env Problem: "Soil and groundwater were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), and pesticides. Soil, soil vapor and groundwater are impacted with tetrachloroethene (PCE) and its breakdown compounds: trichloroethene (TCE), cis-1,2-dichloroethene (1,2-DCE), and vinyl chloride. "
Health Problem: "Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised

255 RANDOLPH STREET (Continued) **S120706187**

	as additional information becomes available."
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	6
Sub Type:	P02
Owner Name:	James Juliano
Owner Company:	255 Randolph Street Properties, LLC
Owner Address:	213-19 99th Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Queens Village, NY 11429
Owner Country:	United States of America
Own Op:	1
Sub Type:	E
Owner Name:	James Juliano
Owner Company:	255 Randolph Street Properties, LLC
Owner Address:	213-19 99th Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Queens Village, NY 11429
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Brooklyn Public Library - Bushwick Branch
Owner Address:	340 Bushwick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11206
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Brooklyn Community Board 16
Owner Address:	444 Thomas S. Boyland Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11212
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

255 RANDOLPH STREET (Continued) **S120706187**

NY MANIFEST:

Name:	255 RANDOLPH STREET
Address:	255 RANDOLPH ST
City,State,Zip:	BROOKLYN, NY 11237
Country:	USA
EPA ID:	NYR000238444
Facility Status:	Not reported
Location Address 1:	255 RANDOLPH STREET
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000238444
Mailing Name:	255 RANDOLPH STREET
Mailing Contact:	JAMES JULIANO
Mailing Address 1:	255 RANDOLPH STREET
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7184655600

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	MAC300006038
Trans2 State ID:	Not reported
Generator Ship Date:	12/20/2018
Trans1 Recv Date:	12/20/2018
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/21/2018
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000238444
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	CDX168000000
TSDF ID 2:	Not reported
Manifest Tracking Number:	016328044JJK
Import Indicator:	N
Export Indicator:	Y
Discr Quantity Indicator:	Y
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported

255 RANDOLPH STREET (Continued) **S120706187**

Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	37470
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	F002
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

192
SSE
1/4-1/2
0.327 mi.
1726 ft.

DANGELO AUTO SALES & PARTS CORP **NY SWF/LF** **S108145799**
582 JOHNSON AVE **N/A**
BROOKLYN, NY 11237

Relative:
Higher

Actual:
14 ft.

SWF/LF:

Name:	DANGELO AUTO SALES & PARTS CORP
Address:	582 JOHNSON AVE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling Facility
Activity Number:	Not reported
Active:	No
East Coordinate:	590850
North Coordinate:	4506966
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported

DANGELO AUTO SALES & PARTS CORP (Continued) **S108145799**

Expiration Date: Not reported
Operator Name: Not reported
Operator Type: Not reported
Laste Date: Not reported

AF193 **APT COMPLEX** **NY LTANKS** **S105998649**
SW **349 SCHOLES ST** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.327 mi.
1727 ft. **Site 1 of 2 in cluster AF**

Relative: **Higher**
Actual: **16 ft.**

LTANKS:

Name:	APT COMPLEX
Address:	349 SCHOLES ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0300325 / 2004-03-24
Facility ID:	0300325
Site ID:	117954
Spill Date:	2003-03-12
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	2003-04-09
CID:	39
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2003-04-09
Spill Record Last Update:	2004-03-24
Spiller Name:	Not reported
Spiller Company:	APT COMPLEX
Spiller Address:	Not reported
Spiller County:	999
Spiller Contact:	JOHN
Spiller Phone:	(718) 497-6044
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	102538
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was KRIMGOLD Called John (718) 497-6044, left message. Allison Walsh returned call. Allison is a Lawyer, representing APT Complex, (John). She asked that the tank test failure letter sent to her. Her address is 460 Park Avenue New York, NY 10022. # (212) 421-2150 Letter was prepared and sent 4/10/03. This facility is not registered with PBS E.R. Tank test letter was returned 5/2/03. Tank test failure letter sent to John 349 Scholes Street Brooklyn, NY 11206 E.R. 10/22/03. YK. Facility registered on 4/25/03 PBS # 2-608900. However, TT is overdue. 2/2/2004. YK faxed an old TTF letter dated April 10, 2003 to David Yudelson (212-421-2150 X 219) attorney for this property. 2/23/04. J.Krimgold talked to David Y. Tank taken out of service but

APT COMPLEX (Continued) **S105998649**

not close yet. Trade-Winds did soil borings(?). He should call me back today with more info. 3/24/04. J.Krimgold reviewed a letter report prepared by Trade-Winds dated 3/16/04. 3 soil samples was taken by drilling through the tank bottom of 3000 gal tank and 2 samples from 1100 gal tank. All came out negative. NFA letter on 3/24/04. "

Remarks: "tank test failure "

All TTF:

Facility ID:	0300325
Spill Number:	0300325
Spill Tank Test:	1528245
Site ID:	117954
Tank Number:	1
Tank Size:	3000
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	117954
Operable Unit ID:	866409
Operable Unit:	01
Material ID:	508406
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

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194 **345 TENEYCK STREET** **NY LTANKS** **S102672003**
West **345 TENEYCK STREET** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.328 mi.
1730 ft.

Relative: **Higher**

Actual: **19 ft.**

LTANKS:

Name:	345 TENEYCK STREET
Address:	345 TENEYCK STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9210082 / 1992-12-01
Facility ID:	9210082
Site ID:	300237
Spill Date:	1992-12-01
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial

345 TENEYCK STREET (Continued) **S102672003**

Spill Class:	C3
Cleanup Ceased:	1992-12-01
SWIS:	2401
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	1992-12-01
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1992-12-02
Spill Record Last Update:	1992-12-02
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	242863
DEC Memo:	""
Remarks:	"FAULTY PETROMETER-OIL OUT FILL PIPE TO CONCRETE SIDEWALK-SPEEDI-DRI APPLIED-SPILL TEAM ENROUTE TO P/U AND DISPOSE"

All Materials:

Site ID:	300237
Operable Unit ID:	974178
Operable Unit:	01
Material ID:	407093
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AD195 **100 MORGAN AVENUE** **NY LTANKS** **S104278698**
SW **100 MORGAN AVE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.338 mi.
1785 ft. **Site 2 of 2 in cluster AD**

Relative: LTANKS:
Lower

Actual: Name:	100 MORGAN AVENUE
13 ft. Address:	100 MORGAN AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9909719 / 2000-11-20
Facility ID:	9909719
Site ID:	328581
Spill Date:	1999-11-10

100 MORGAN AVENUE (Continued) **S104278698**

Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1999-11-10
CID:	281
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1999-11-10
Spill Record Last Update:	2000-11-20
Spiller Name:	KEVIN LUMPE
Spiller Company:	STEEL LOS LP
Spiller Address:	HICKSVILLE RD
Spiller County:	001
Spiller Contact:	KEVIN LUMPE
Spiller Phone:	(516) 576-3165
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	264440
DEC Memo:	""
Remarks:	"TANK PERFORMED AT ABOVE LOCATION. PLANS HAVE BEEN MADE TO REMOVE TANK. NO CALL BACK REQUESTED."

All TTF:

Facility ID:	9909719
Spill Number:	9909719
Spill Tank Test:	1547833
Site ID:	328581
Tank Number:	Not reported
Tank Size:	2500
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	F
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	328581
Operable Unit ID:	1084487
Operable Unit:	01
Material ID:	298793
Material Code:	0001A
Material Name:	#2 fuel oil

100 MORGAN AVENUE (Continued) **S104278698**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AG196 **T & T SCRAP LLC** **NY SWF/LF** **S116554258**
NNW **340 MASPETH AVENUE** **NY Spills** **N/A**
1/4-1/2 **BROOKLYN, NY 11211** **NY SPDES**
0.343 mi.
1809 ft. **Site 1 of 7 in cluster AG**

Relative:
Lower

Actual:
12 ft.

SWF/LF:

Name:	T N T SCRAP LLC
Address:	340 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Flag:	ACTIVE
Region Code:	2
Phone Number:	7183664017
Owner Name:	T N T Scrap
Owner Type:	Private
Owner Address:	340 Maspeth Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Email:	Not reported
Owner Phone:	7183664017
Contact Name:	Timothy Fulton
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	info@tntscrap.com
Contact Phone:	7183664017
Activity Desc:	Vehicle Dismantling Facility
Activity Number:	[41J]
Active:	Yes
East Coordinate:	590313
North Coordinate:	4508024
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

SPILLS:

Name:	TNT SCRAP YARD
Address:	340 MASPETH AVE
City,State,Zip:	BROOKLYN, NY 11211
Spill Number/Closed Date:	1400237 / 2014-04-24
Facility ID:	1400237
Facility Type:	ER
DER Facility ID:	448349

T & T SCRAP LLC (Continued) **S116554258**

Site ID:	493470
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	D4
SWIS:	2401
Spill Date:	2014-04-07
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2014-04-07
CID:	Not reported
Water Affected:	ENGLISH KILLS
Spill Source:	Commercial/Industrial
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2014-04-07
Spill Record Last Update:	2014-04-24
Spiller Name:	TNT SCRAP METAL
Spiller Company:	TNT SCRAP METAL
Spiller Address:	340 MASPETH AVE
Spiller Company:	999
Contact Name:	ANONYMOUS EMAILER
DEC Memo:	"Referred to DLE for follow up. DEC Piper spoke with DLE Iovino on 4/8. Her inspection revealed no sighs of diesel spillage, tank or sheen on water or bulkhead. Bsaed on DLE inspection and anonynous call with no additional info, this spill is closed. "
Remarks:	">>> 4/7/2014 20:18 >>> The following information was received through the DEC website Report an Environmental Violation Online or sent directly by the complainant to an OPP dispatch mailbox: Who Did It: TNT Scrap Yard on Maspeth ave Brooklyn, NY. On Newtown Creek What Occurred: There is a large amount of what looks and smells like diesel fuel flowing into the Newtown Creek from the scrap yard. It is in the rear right hand side if looking from the water. When Did It Occur: 4/7/14. Late afternoon evening. Appears to be running with storm water run off. County: Kings Municipality: Brooklyn Location Or Address: 340 Maspeth Ave How Did It Occur: It looks like their old fuel truck is leaking out diesel into the creek. Complainants Name: Complainants Phone: Complainants Email: Date of Submittal: 04/07/2014"
	Not reported

All Materials:

Site ID:	493470
Operable Unit ID:	1242974
Operable Unit:	01
Material ID:	2243575
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

T & T SCRAP LLC (Continued) **S116554258**

SPDES:

Name:	T & T SCRAP LLC
Address:	340 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Permit Number:	NYR00E223
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor
Primary Facility SIC Code:	5093
State Water Body Name:	ENGLISH KILLS
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.717 / -73.929
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	T & T SCRAP LLC
Non-Gov Permit Street Address:	T & T SCRAP LLC
Non-Gov Permit Supplemental Location:	340 MASPETH AVE
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	T & T SCRAP LLC
Non-Gov Facility Street Address:	T & T SCRAP LLC
Non-Gov Facility Supplemental Location:	340 MASPETH AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Name:	T & T SCRAP LLC
Address:	340 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	T & T SCRAP LLC
Non-Gov Permit Street Address:	340 MASPETH AVE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN

T & T SCRAP LLC (Continued) **S116554258**

Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	T & T SCRAP LLC
Non-Gov Facility Street Address:	T & T SCRAP LLC
Non-Gov Facility Supplemental Location:	340 MASPETH AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Name:	T & T SCRAP LLC
Address:	340 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	T & T SCRAP LLC
Non-Gov Facility Street Address:	T & T SCRAP LLC
Non-Gov Facility Supplemental Location:	340 MASPETH AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

AG197 **NEW YORK RECYCLERS; INC. (MASPETH AVE)** **NY SWF/LF** **S105841915**
NNW **340 MASPETH AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY 11211**
0.343 mi.
1809 ft. **Site 2 of 7 in cluster AG**

Relative: **Lower**
Actual: **12 ft.**

SWF/LF:

Name:	NEW YORK RECYCLERS; INC. (MASPETH AVE)
Address:	340 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Flag:	INACTIVE
Region Code:	2
Phone Number:	7183492540
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	TIMOTHY FULTON
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[24WE6]
Active:	No
East Coordinate:	590567
North Coordinate:	4508105
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Concrete;Asphalt;Brick;Rock;Soil (Clean)
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

AH198 **FEDEX FACILITY** **NY LTANKS** **S106004598**
NNW **300 MASPETH AVE** **NY Spills** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.343 mi.
1813 ft. **Site 1 of 7 in cluster AH**

Relative: **Lower**
Actual: **12 ft.**

LTANKS:

Name:	FEDEX
Address:	300 MASPETH AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0204002 / 2005-12-22
Facility ID:	0204002
Site ID:	291369
Spill Date:	2002-07-15
Spill Cause:	Tank Failure
Spill Source:	Unknown
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	2401

FEDEX FACILITY (Continued) **S106004598**

Investigator:	aaobliga
Referred To:	Not reported
Reported to Dept:	2002-07-17
CID:	207
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2002-07-17
Spill Record Last Update:	2006-01-06
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	JERRY SWART
Spiller Phone:	(412) 262-6291
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	235924
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 2/13/2003 - Closed Due To The Nature / Extent Of The Spill Report 10/3/05 - Spill transferred from Vought to Obligado."
Remarks:	"black tarry substance"

All Materials:

Site ID:	291369
Operable Unit ID:	855266
Operable Unit:	01
Material ID:	518262
Material Code:	0063A
Material Name:	unknown hazardous material
Case No.:	Not reported
Material FA:	Hazardous Material
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPILLS:

Name:	FEDEX
Address:	300 MASPETH AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0202804 / 2005-12-22
Facility ID:	0202804
Facility Type:	ER
DER Facility ID:	235924
Site ID:	205400
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B4
SWIS:	2401
Spill Date:	2002-06-17
Investigator:	aaobliga

FEDEX FACILITY (Continued) **S106004598**

Referred To:	NFA
Reported to Dept:	2002-06-17
CID:	365
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2002-06-17
Spill Record Last Update:	2005-12-22
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	300 MASPETH AV
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 10/15/04-Vought-File review by Vought: Access Agreement-7/10/02. Access agreement for FedEx to remove USTs and portion of tankfield on adjacent property. Letter from Testwell Labs(Pearce) to FedEx(Swart)-7/10/02. Work proposal for installation of nine soil borings, field screening of soil samples, conversion of three of the borings into monitoring wells, quarterly sampling of the wells and further excavation of the soil and piping. Letter from Testwell Labs(Pearce) to DEC Vought-7/22/02. Soil samples were taken from the walls and groundwater after the underground fuel storage tanks and surrounding had been removed... Testwell recommends: 1)backfilling of UST excavation 2)SVOC's are due to fill material 3)if wells are deemed necessary they are to be installed at a later date after site work (piles and foundations) is complete 4)remaining vent lines terminate at surface level and remaining contaminated soil on adjacent property should be removed. Letter from Gannett Fleming (Ernst) to DEC Vought-8/13/02. This letter is intended to inform the NYSDEC of the projected site remediation activities. Based on the endpoint soil data (samples WSW and SSW no further action is recommended for the soil beneath facility footprint which is currently under construcion . No groundwater monitoring wells are proposed inside the facility. Gannett Fleming will provide a comprehensive site investigation report on both the UST removal and for the black tar like substance found in the southwestern portion of the site . Report from Gannett Fleming to DEC Vought-8/28/04. This letter provides a summary of the additional investigation activities and sample analysis that have taken place..... Removal of twenty (550-gallon) gasoline USTs and 900 tons of impacted soil. See above 7/22/02 entry for endpoint analyticals. Soil analyticals show 7750ppb 1,3,5-trimethylbenzene(WSW Wall) and 6470ppb xylene(WSW Wall), 110ppb benzene(vent x bottom), 110ppb benzene(Vent x sw), 120ppb benzene(n wall composite), 5900ppb 1,3,5-trimethylbenzene(n wall composite), 11000ppb 1,2,4-trimethylbenzene(n wall composite). Groundwater analytical from one well shows 40ppb benzene and 26ppb xylene. Black stained soil exhibiting a strong petroleum odor was observed adjacent to the southwestern portion of the existing warehouse . Seven test pits were dug to delineate the stained soil but no groundwater samples were collected. Report recommends: 1)no further actions for

FEDEX FACILITY (Continued) **S106004598**

soils south and west of the former UST area 2)additional delineation north and east of the former UST area via Geoprobe 3)installation of six montoring wells (two upgradient and four downgradient). Investigation activities will be provided to DEC in a supplemental site investigation report. Soil analyticals shos PAH exceedences throughout site due to fill material. Report from Gannett Fleming to DEC Vought-6/8/04. This letter report documents the results of investigative activities conducted.... A review of historic Sanborn maps indicate a Brooklyn Union Gas bulk petroleum storage and distribution terminal was present in the southwestern portion of the site in 1951. Installation of six monitoring wells. An additional well was installed to replace a well destroyed in the tankfield excavation. Groundwater at a depth of 8' below grade. ..groundwater flows to the north in the northern portion of the site. Groundwater flows converge to the east in the southern portion of the site . Groundwater analyticals show 21ppb ethylbenzene(MW1), 13ppb 1,3,5-trimethylbenzene(MW1), 97ppb napthalene(MW1), 10ppb benzene(MW2), 7ppb ethylbenzene(MW2), 93ppb napthalene(MW2), 20ppb benzene(MW7), 7ppb ethylbenzene(MW7), 35ppb xylene(MW7), 52ppb napthalene(MW7). Soil analyticals showed no VOC exceedences and SVOC exceedences attributable to fill material. Report recommends: 1)no further action with respect to soil 2)no further action for onsite groundwater due to poor regional groundwater quality . Report requests no further action. DEC requires: 1)one full year of groundwater monitoring prior to closure. 10/18/04-Vought-Sent letter with above requirement. 9/27/05 - Obligado - SITE TRANSFERRED FROM VOUGHT TO OBLIGADO 9/30/05 - Obligado - Called Manfred Bohms, left message. 10/03/05 - Obligado - Spoke with Manfred Bohms (516) 671-8440. Said that a final quarterly monitoring report should be received by Department in a few weeks. 11/7/05 - Obligado - Review final quarterly monitoring report. Ground water results show 28 ppb benzene (MW1), 28 ppb ethylbenzene (mw1), 10 ppb xylenes (mw1), 3 ppb benzene (mw3), 34 ppb benzene (mw7), 6 ppb toluene (mw7), 32 ppb xylenes (mw7), 150 ppb napthalene (mw7). Conclusions: GW data indicate ground water contmaination is stagnant. GW flow and quality have remained consistent throughout monitoring program. Stagnant gw plume indicate groundwater impacts representative of regional groundwater quality . Requests no further action. Will discuss with Joe Sun. 12/22/05 - Obligado - Spoke with Koon. Approves NFA. Minor residual contamination possibly coming from offsite - former Brooklyn Union is across the street. Spill closed. Letter sent. "

Remarks: "they were excavating a previously closed tank & came across it by the piping - they will excavate & stock pile the soil"

All Materials:

Site ID:	205400
Operable Unit ID:	855853
Operable Unit:	01
Material ID:	520642
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

FEDEX FACILITY (Continued) **S106004598**

Name:	FEDEX FACILITY
Address:	300 MASPETH AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0810227 / 2008-12-12
Facility ID:	0810227
Facility Type:	ER
DER Facility ID:	235924
Site ID:	407744
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	2008-12-12
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-12-12
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2008-12-12
Spill Record Last Update:	2008-12-12
Spiller Name:	MIKE DOWGER
Spiller Company:	FEDEX
Spiller Address:	300 MASPETH AVE
Spiller Company:	999
Contact Name:	MIKE DOWGER
DEC Memo:	"Sangesland spoke to Dan at Miller. He said there was a spill in the FEDEX parking lot from 20 gal diesel from a delivery truck. Vac truck is sucking out the drain. Because of the rain earlier today there was standing water in the sump and the product was floating on top of the water. Speedie Dry was applied to the parking lot area. 3PM Everything is now cleaned up and Miller is packing up their gear and leaving."
Remarks:	"Caller states a leaking fuel tank on a truck caused fuel to spill onto the parking lot and ran into a storm sewer. Miller environmental is cleaning up."

All Materials:

Site ID:	407744
Operable Unit ID:	1164280
Operable Unit:	01
Material ID:	2155653
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

AI199 **JOYVA CORPORATION** **NY LTANKS** **S118953482**
South **53 VARICK AVE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.344 mi.
1814 ft. **Site 1 of 2 in cluster AI**

Relative:
Higher

Actual:
14 ft.

LTANKS:

Name:	JOYVA CORPORATION
Address:	53 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0302698 / 2003-07-23
Facility ID:	0302698
Site ID:	303353
Spill Date:	2003-06-13
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2003-06-13
CID:	297
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2003-06-13
Spill Record Last Update:	2003-07-23
Spiller Name:	MORT TUROSS
Spiller Company:	JOYVA CORPORATION
Spiller Address:	53 VARICK AV
Spiller County:	001
Spiller Contact:	MORT TUROSS ENERGY STORAG
Spiller Phone:	(718) 257-4045
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	245115
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND Sangesland DDO Tank Test Failure letter sent to: Mort Tuross Joyva Corporation 53 Varick Ave Brooklyn, NY 11237 7/23/2003 - Energy Storage Systems Inc (718-257-8470) sent in a letter which stated that the problem was found on a fitting. The tank was retested and past. During the excavation to the top of the tank, no contamination was found. The tank was repaired, backfilled and put back into service. Spill Closed"
Remarks:	"NO CONTAMINATION FOUND AROUND THE TANK"

All TTF:

Facility ID:	0302698
Spill Number:	0302698
Spill Tank Test:	1528449
Site ID:	303353
Tank Number:	Not reported
Tank Size:	2000
Material:	0001
EPA UST:	Not reported

JOYVA CORPORATION (Continued) **S118953482**

UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	303353
Operable Unit ID:	870434
Operable Unit:	01
Material ID:	507158
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AJ200 **CORNISH KNIT GOODS/CORNISH MINI-MILLS** **NY ENG CONTROLS** **S110043685**
South **121 INGRAHAM ST./89 PORTER AVE.** **NY INST CONTROL** **N/A**
1/4-1/2 **BROOKLYN, NY 11237** **NY VCP**
0.346 mi.
1827 ft. **Site 1 of 4 in cluster AJ**

Relative:
Higher

Actual:
17 ft.

ENG CONTROLS:

Name:	CORNISH KNIT GOODS/CORNISH MINI-MILLS
Address:	121 INGRAHAM ST./89 PORTER AVE.
City,State,Zip:	BROOKLYN, NY 11237
Site Code:	58133
HW Code:	V00409
Control Code:	18
Control Type:	ENG
Date Record Added:	05/10/2010
Date Rec Updated:	11/08/2021
Updated By:	MXMAGLOI
Site Description:	"Location: The Cornish Knit Goods/Cornish Mini-Mills site is located at 89 Porter Avenue, Brooklyn, NY. The former address of this site was 121 Ingraham Street/89-111 Porter Ave. The 0.57 acre site is in East Williamsburg, an urban area of Brooklyn. The tax map identifies the site as Block 2993, Lot 1. The site is bordered by Porter Avenue to the west, by Ingraham Street to the south, by Joyva Candy Factory's parking lot to the east, and by Johnson Avenue to the north. Site Features: The site is completely covered by a four story building, which was renovated in order to be designated for restricted residential use. Current zoning/use(s): The site is in an area zoned M1-2, light manufacturing. The site building is currently operated as the Peter Jay Sharp Center for Opportunity (PJSCO). The building is used as shelter and rehabilitation center for homeless men. The surrounding parcels are currently used for a combination of commercial, industrial and residential. Historical Use(s): Until 1980

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

the property was operated by Cornish Knit Goods/Cornish Mini-Mills as a textile factory. From 1980 until 1995, the building was vacant, and it was illegally operated as a dry cleaning facility and as a stolen car scrap yard. In 2000, the property was owned by ABC Closing Corp. and the owner entered in a Voluntary Cleanup Agreement (VCA) with NYSDEC. In 2003, site ownership was transferred to Porter Avenue HDFC, a subsidiary of the DOE Fund, Inc., and the VCA was amended to reflect the change in ownership. Dry cleaning activities and uncontrolled disposal of waste solvents (perchloroethylene, or PCE, and its breakdown product trichloroethylene, or TCE) led to contamination of the soil and groundwater at the site. Site Geology and Hydrogeology: The surficial geology in the vicinity of the site is characterized by layered loose sediment. Soils recovered from the western portion of the site appear to be loose sands and sediments to approximately nine feet below ground surface (bgs) mixed with fill material such as gravels, brick, and old timbers. From 9 feet bgs to the top of the water table (approximately 13 feet bgs), soils are compact clays and sands. Soils recovered from drilling in the eastern portion of the site were characterized as fill. Groundwater depth ranges from 7 feet below ground surface (ft bgs) at the northwest portion of the site, 11-11.5 ft bgs across the western portion of the site, and 12-12.5 ft bgs across the southeast portion of the site. "

Env Problem: "Nature and Extent of the Contamination: Post-Remediation: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern at the site included the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (DCE) and vinyl chloride (VC) in soil, groundwater and soil vapor. A vapor barrier and an Air Sparge/Soil Vapor Extraction System (AS/SVES) were installed and are operating on site to mitigate the remaining PCE and TCE contamination in soil vapor. Remaining contamination in soil and groundwater is being managed under a Site Management Plan. "

Health Problem: "Groundwater beneath the site is contaminated with volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), at levels above NYS drinking water standards. There are no active public water supply wells within a one mile radius of the site and public exposure to contaminated groundwater is unlikely because all businesses and residences are supplied by public water. Exposure to contaminated soil is not expected since the site is covered by buildings and is paved. A vapor barrier and active soil vapor extraction system is at the site to prevent exposures from soil vapor intrusion. "

Dump: False
Structure: True
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-11-30 14:48:00
Record Upd: 2011-04-11 15:21:00
Updated By: IXMUNTEA
Own Op: 1
Sub Type: 06
Owner Name: John McDonald

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Owner Company:	The DOE Fund, Inc.
Owner Address:	345 East 102nd Street
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10029
Owner Country:	United States of America
Own Op:	4
Sub Type:	E
Owner Name:	John McDonald
Owner Company:	Porter Avenue HDFC A DIV. OF DOE FUND Inc.
Owner Address:	345 EAST 102ND STREET, 3RD FLOOR
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10029
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	John McDonald
Owner Company:	The DOE Fund, Inc.
Owner Address:	345 East 102nd Street, Third Floor
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10029
Owner Country:	United States of America
HW Code:	V00409
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	DICHLOROETHYLENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	METHYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	VINYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	1,1 Dichloroethene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	1,1,1,2-TETRACHLOROETHANE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	Hazardous Substances
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	00-TEMP-03-24(I
Cross Ref Type Code:	20
Cross Ref Type:	Haz. Substance ID
Record Added Date:	2000-11-30 16:07:00
Record Updated:	2005-02-24 15:54:00
Updated By:	VCPTRANS
Crossref ID:	2010000128456
Cross Ref Type Code:	25

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Cross Ref Type:	County Recording Identifier
Record Added Date:	2011-04-13 14:06:00
Record Updated:	2011-04-13 14:06:00
Updated By:	JHOCONNE
Name:	CORNISH KNIT GOODS/CORNISH MINI-MILLS
Address:	121 INGRAHAM ST./89 PORTER AVE.
City,State,Zip:	BROOKLYN, NY 11237
Site Code:	58133
HW Code:	V00409
Control Code:	22
Control Type:	ENG
Date Record Added:	01/21/2009
Date Rec Updated:	11/08/2021
Updated By:	MXMAGLOI
Site Description:	"Location: The Cornish Knit Goods/Cornish Mini-Mills site is located at 89 Porter Avenue, Brooklyn, NY. The former address of this site was 121 Ingraham Street/89-111 Porter Ave. The 0.57 acre site is in East Williamsburg, an urban area of Brooklyn. The tax map identifies the site as Block 2993, Lot 1. The site is bordered by Porter Avenue to the west, by Ingraham Street to the south, by Joyva Candy Factory's parking lot to the east, and by Johnson Avenue to the north. Site Features: The site is completely covered by a four story building, which was renovated in order to be designated for restricted residential use. Current zoning/use(s): The site is in an area zoned M1-2, light manufacturing. The site building is currently operated as the Peter Jay Sharp Center for Opportunity (PJSCO). The building is used as shelter and rehabilitation center for homeless men. The surrounding parcels are currently used for a combination of commercial, industrial and residential. Historical Use(s): Until 1980 the property was operated by Cornish Knit Goods/Cornish Mini-Mills as a textile factory. From 1980 until 1995, the building was vacant, and it was illegally operated as a dry cleaning facility and as a stolen car scrap yard. In 2000, the property was owned by ABC Closing Corp. and the owner entered in a Voluntary Cleanup Agreement (VCA) with NYSDEC. In 2003, site ownership was transferred to Porter Avenue HDFC, a subsidiary of the DOE Fund, Inc., and the VCA was amended to reflect the change in ownership. Dry cleaning activities and uncontrolled disposal of waste solvents (perchloroethylene, or PCE, and its breakdown product trichloroethylene, or TCE) led to contamination of the soil and groundwater at the site. Site Geology and Hydrogeology: The surficial geology in the vicinity of the site is characterized by layered loose sediment. Soils recovered from the western portion of the site appear to be loose sands and sediments to approximately nine feet below ground surface (bgs) mixed with fill material such as gravels, brick, and old timbers. From 9 feet bgs to the top of the water table (approximately 13 feet bgs), soils are compact clays and sands. Soils recovered from drilling in the eastern portion of the site were characterized as fill. Groundwater depth ranges from 7 feet below ground surface (ft bgs) at the northwest portion of the site, 11-11.5 ft bgs across the western portion of the site, and 12-12.5 ft bgs across the southeast portion of the site. "
Env Problem:	"Nature and Extent of the Contamination: Post-Remediation: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern at the site included the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

	(DCE) and vinyl chloride (VC) in soil, groundwater and soil vapor. A vapor barrier and an Air Sparge/Soil Vapor Extraction System (AS/SVES) were installed and are operating on site to mitigate the remaining PCE and TCE contamination in soil vapor. Remaining contamination in soil and groundwater is being managed under a Site Management Plan. "
Health Problem:	"Groundwater beneath the site is contaminated with volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), at levels above NYS drinking water standards. There are no active public water supply wells within a one mile radius of the site and public exposure to contaminated groundwater is unlikely because all businesses and residences are supplied by public water. Exposure to contaminated soil is not expected since the site is covered by buildings and is paved. A vapor barrier and active soil vapor extraction system is at the site to prevent exposures from soil vapor intrusion. "
Dump:	False
Structure:	True
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2009-11-30 14:48:00
Record Upd:	2011-04-11 15:21:00
Updated By:	IXMUNTEA
Own Op:	1
Sub Type:	06
Owner Name:	John McDonald
Owner Company:	The DOE Fund, Inc.
Owner Address:	345 East 102nd Street
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10029
Owner Country:	United States of America
Own Op:	4
Sub Type:	E
Owner Name:	John McDonald
Owner Company:	Porter Avenue HDFC A DIV. OF DOE FUND Inc.
Owner Address:	345 EAST 102ND STREET, 3RD FLOOR
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10029
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	John McDonald
Owner Company:	The DOE Fund, Inc.
Owner Address:	345 East 102nd Street, Third Floor
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10029
Owner Country:	United States of America
HW Code:	V00409
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	DICHLOROETHYLENE

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	METHYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	VINYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	1,1 Dichloroethene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	1,1,1,2-TETRACHLOROETHANE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	Hazardous Substances
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	00-TEMP-03-24(I
Cross Ref Type Code:	20
Cross Ref Type:	Haz. Substance ID
Record Added Date:	2000-11-30 16:07:00
Record Updated:	2005-02-24 15:54:00
Updated By:	VCPTRANS
Crossref ID:	2010000128456
Cross Ref Type Code:	25
Cross Ref Type:	County Recording Identifier
Record Added Date:	2011-04-13 14:06:00
Record Updated:	2011-04-13 14:06:00
Updated By:	JHOCONNE

Name:	CORNISH KNIT GOODS/CORNISH MINI-MILLS
Address:	121 INGRAHAM ST./89 PORTER AVE.
City,State,Zip:	BROOKLYN, NY 11237
Site Code:	58133
HW Code:	V00409
Control Code:	15
Control Type:	ENG
Date Record Added:	05/10/2010
Date Rec Updated:	11/08/2021
Updated By:	MXMAGLOI
Site Description:	"Location: The Cornish Knit Goods/Cornish Mini-Mills site is located at 89 Porter Avenue, Brooklyn, NY. The former address of this site was 121 Ingraham Street/89-111 Porter Ave. The 0.57 acre site is in East Williamsburg, an urban area of Brooklyn. The tax map identifies the site as Block 2993, Lot 1. The site is bordered by Porter Avenue to the west, by Ingraham Street to the south, by Joyva Candy Factory's parking lot to the east, and by Johnson Avenue to the north. Site Features: The site is completely covered by a four story building, which was renovated in order to be designated for restricted residential use. Current zoning/use(s): The site is in an area zoned M1-2, light manufacturing. The site building is currently operated as the Peter Jay Sharp Center for Opportunity (PJSCO). The

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

building is used as shelter and rehabilitation center for homeless men. The surrounding parcels are currently used for a combination of commercial, industrial and residential. Historical Use(s): Until 1980 the property was operated by Cornish Knit Goods/Cornish Mini-Mills as a textile factory. From 1980 until 1995, the building was vacant, and it was illegally operated as a dry cleaning facility and as a stolen car scrap yard. In 2000, the property was owned by ABC Closing Corp. and the owner entered in a Voluntary Cleanup Agreement (VCA) with NYSDEC. In 2003, site ownership was transferred to Porter Avenue HDFC, a subsidiary of the DOE Fund, Inc., and the VCA was amended to reflect the change in ownership. Dry cleaning activities and uncontrolled disposal of waste solvents (perchloroethylene, or PCE, and its breakdown product trichloroethylene, or TCE) led to contamination of the soil and groundwater at the site. Site Geology and Hydrogeology: The surficial geology in the vicinity of the site is characterized by layered loose sediment. Soils recovered from the western portion of the site appear to be loose sands and sediments to approximately nine feet below ground surface (bgs) mixed with fill material such as gravels, brick, and old timbers. From 9 feet bgs to the top of the water table (approximately 13 feet bgs), soils are compact clays and sands. Soils recovered from drilling in the eastern portion of the site were characterized as fill. Groundwater depth ranges from 7 feet below ground surface (ft bgs) at the northwest portion of the site, 11-11.5 ft bgs across the western portion of the site, and 12-12.5 ft bgs across the southeast portion of the site. "

Env Problem: "Nature and Extent of the Contamination: Post-Remediation: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern at the site included the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (DCE) and vinyl chloride (VC) in soil, groundwater and soil vapor. A vapor barrier and an Air Sparge/Soil Vapor Extraction System (AS/SVES) were installed and are operating on site to mitigate the remaining PCE and TCE contamination in soil vapor. Remaining contamination in soil and groundwater is being managed under a Site Management Plan. "

Health Problem: "Groundwater beneath the site is contaminated with volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), at levels above NYS drinking water standards. There are no active public water supply wells within a one mile radius of the site and public exposure to contaminated groundwater is unlikely because all businesses and residences are supplied by public water. Exposure to contaminated soil is not expected since the site is covered by buildings and is paved. A vapor barrier and active soil vapor extraction system is at the site to prevent exposures from soil vapor intrusion. "

Dump: False
Structure: True
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-11-30 14:48:00
Record Upd: 2011-04-11 15:21:00
Updated By: IXMUNTEA

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Own Op:	1
Sub Type:	06
Owner Name:	John McDonald
Owner Company:	The DOE Fund, Inc.
Owner Address:	345 East 102nd Street
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10029
Owner Country:	United States of America
Own Op:	4
Sub Type:	E
Owner Name:	John McDonald
Owner Company:	Porter Avenue HDFC A DIV. OF DOE FUND Inc.
Owner Address:	345 EAST 102ND STREET, 3RD FLOOR
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10029
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	John McDonald
Owner Company:	The DOE Fund, Inc.
Owner Address:	345 East 102nd Street, Third Floor
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10029
Owner Country:	United States of America
HW Code:	V00409
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	DICHLOROETHYLENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	METHYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	VINYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	1,1 Dichloroethene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	1,1,1,2-TETRACHLOROETHANE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	Hazardous Substances
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	00-TEMP-03-24(I
Cross Ref Type Code:	20
Cross Ref Type:	Haz. Substance ID
Record Added Date:	2000-11-30 16:07:00
Record Updated:	2005-02-24 15:54:00

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Updated By:	VCPTRANS
Crossref ID:	2010000128456
Cross Ref Type Code:	25
Cross Ref Type:	County Recording Identifier
Record Added Date:	2011-04-13 14:06:00
Record Updated:	2011-04-13 14:06:00
Updated By:	JHOCONNE
Name:	CORNISH KNIT GOODS/CORNISH MINI-MILLS
Address:	121 INGRAHAM ST./89 PORTER AVE.
City,State,Zip:	BROOKLYN, NY 11237
Site Code:	58133
HW Code:	V00409
Control Code:	13
Control Type:	ENG
Date Record Added:	05/10/2010
Date Rec Updated:	11/08/2021
Updated By:	MXMAGLOI
Site Description:	"Location: The Cornish Knit Goods/Cornish Mini-Mills site is located at 89 Porter Avenue, Brooklyn, NY. The former address of this site was 121 Ingraham Street/89-111 Porter Ave. The 0.57 acre site is in East Williamsburg, an urban area of Brooklyn. The tax map identifies the site as Block 2993, Lot 1. The site is bordered by Porter Avenue to the west, by Ingraham Street to the south, by Joyva Candy Factory's parking lot to the east, and by Johnson Avenue to the north. Site Features: The site is completely covered by a four story building, which was renovated in order to be designated for restricted residential use. Current zoning/use(s): The site is in an area zoned M1-2, light manufacturing. The site building is currently operated as the Peter Jay Sharp Center for Opportunity (PJSCO). The building is used as shelter and rehabilitation center for homeless men. The surrounding parcels are currently used for a combination of commercial, industrial and residential. Historical Use(s): Until 1980 the property was operated by Cornish Knit Goods/Cornish Mini-Mills as a textile factory. From 1980 until 1995, the building was vacant, and it was illegally operated as a dry cleaning facility and as a stolen car scrap yard. In 2000, the property was owned by ABC Closing Corp. and the owner entered in a Voluntary Cleanup Agreement (VCA) with NYSDEC. In 2003, site ownership was transferred to Porter Avenue HDFC, a subsidiary of the DOE Fund, Inc., and the VCA was amended to reflect the change in ownership. Dry cleaning activities and uncontrolled disposal of waste solvents (perchloroethylene, or PCE, and its breakdown product trichloroethylene, or TCE) led to contamination of the soil and groundwater at the site. Site Geology and Hydrogeology: The surficial geology in the vicinity of the site is characterized by layered loose sediment. Soils recovered from the western portion of the site appear to be loose sands and sediments to approximately nine feet below ground surface (bgs) mixed with fill material such as gravels, brick, and old timbers. From 9 feet bgs to the top of the water table (approximately 13 feet bgs), soils are compact clays and sands. Soils recovered from drilling in the eastern portion of the site were characterized as fill. Groundwater depth ranges from 7 feet below ground surface (ft bgs) at the northwest portion of the site, 11-11.5 ft bgs across the western portion of the site, and 12-12.5 ft bgs across the southeast portion of the site. "
Env Problem:	"Nature and Extent of the Contamination: Post-Remediation: Remediation at the site is complete. Prior to remediation, the

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

primary contaminants of concern at the site included the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (DCE) and vinyl chloride (VC) in soil, groundwater and soil vapor. A vapor barrier and an Air Sparge/Soil Vapor Extraction System (AS/SVES) were installed and are operating on site to mitigate the remaining PCE and TCE contamination in soil vapor. Remaining contamination in soil and groundwater is being managed under a Site Management Plan. "

Health Problem:	"Groundwater beneath the site is contaminated with volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), at levels above NYS drinking water standards. There are no active public water supply wells within a one mile radius of the site and public exposure to contaminated groundwater is unlikely because all businesses and residences are supplied by public water. Exposure to contaminated soil is not expected since the site is covered by buildings and is paved. A vapor barrier and active soil vapor extraction system is at the site to prevent exposures from soil vapor intrusion. "
Dump:	False
Structure:	True
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2009-11-30 14:48:00
Record Upd:	2011-04-11 15:21:00
Updated By:	IXMUNTEA
Own Op:	1
Sub Type:	06
Owner Name:	John McDonald
Owner Company:	The DOE Fund, Inc.
Owner Address:	345 East 102nd Street
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10029
Owner Country:	United States of America
Own Op:	4
Sub Type:	E
Owner Name:	John McDonald
Owner Company:	Porter Avenue HDFC A DIV. OF DOE FUND Inc.
Owner Address:	345 EAST 102ND STREET, 3RD FLOOR
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10029
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	John McDonald
Owner Company:	The DOE Fund, Inc.
Owner Address:	345 East 102nd Street, Third Floor
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10029
Owner Country:	United States of America
HW Code:	V00409
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Waste Code: Not reported
HW Code: V00409
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: METHYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1,1,2-TETRACHLOROETHANE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 00-TEMP-03-24(I
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS
Crossref ID: 2010000128456
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2011-04-13 14:06:00
Record Updated: 2011-04-13 14:06:00
Updated By: JHOCONNE

INST CONTROL:
Name: CORNISH KNIT GOODS/CORNISH MINI-MILLS
Address: 121 INGRAHAM ST./89 PORTER AVE.
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58133
Control Name: Soil Management Plan
HW Code: V00409
Control Code: 14
Control Type: INST
Dt record added: 01/21/2009
Dt rec updated: 11/08/2021
Updated By: MXMAGLOI
Site Code: 58133
Site Description: "Location: The Cornish Knit Goods/Cornish Mini-Mills site is located at 89 Porter Avenue, Brooklyn, NY. The former address of this site was 121 Ingraham Street/89-111 Porter Ave. The 0.57 acre site is in East Williamsburg, an urban area of Brooklyn. The tax map identifies the site as Block 2993, Lot 1. The site is bordered by Porter Avenue to the west, by Ingraham Street to the south, by Joyva Candy

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Factory's parking lot to the east, and by Johnson Avenue to the north. Site Features: The site is completely covered by a four story building, which was renovated in order to be designated for restricted residential use. Current zoning/use(s): The site is in an area zoned M1-2, light manufacturing. The site building is currently operated as the Peter Jay Sharp Center for Opportunity (PJSCO). The building is used as shelter and rehabilitation center for homeless men. The surrounding parcels are currently used for a combination of commercial, industrial and residential. Historical Use(s): Until 1980 the property was operated by Cornish Knit Goods/Cornish Mini-Mills as a textile factory. From 1980 until 1995, the building was vacant, and it was illegally operated as a dry cleaning facility and as a stolen car scrap yard. In 2000, the property was owned by ABC Closing Corp. and the owner entered in a Voluntary Cleanup Agreement (VCA) with NYSDEC. In 2003, site ownership was transferred to Porter Avenue HDFC, a subsidiary of the DOE Fund, Inc., and the VCA was amended to reflect the change in ownership. Dry cleaning activities and uncontrolled disposal of waste solvents (perchloroethylene, or PCE, and its breakdown product trichloroethylene, or TCE) led to contamination of the soil and groundwater at the site. Site Geology and Hydrogeology: The surficial geology in the vicinity of the site is characterized by layered loose sediment. Soils recovered from the western portion of the site appear to be loose sands and sediments to approximately nine feet below ground surface (bgs) mixed with fill material such as gravels, brick, and old timbers. From 9 feet bgs to the top of the water table (approximately 13 feet bgs), soils are compact clays and sands. Soils recovered from drilling in the eastern portion of the site were characterized as fill. Groundwater depth ranges from 7 feet below ground surface (ft bgs) at the northwest portion of the site, 11-11.5 ft bgs across the western portion of the site, and 12-12.5 ft bgs across the southeast portion of the site. "

Env Problem: "Nature and Extent of the Contamination: Post-Remediation: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern at the site included the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (DCE) and vinyl chloride (VC) in soil, groundwater and soil vapor. A vapor barrier and an Air Sparge/Soil Vapor Extraction System (AS/SVES) were installed and are operating on site to mitigate the remaining PCE and TCE contamination in soil vapor. Remaining contamination in soil and groundwater is being managed under a Site Management Plan. "

Health Problem: "Groundwater beneath the site is contaminated with volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), at levels above NYS drinking water standards. There are no active public water supply wells within a one mile radius of the site and public exposure to contaminated groundwater is unlikely because all businesses and residences are supplied by public water. Exposure to contaminated soil is not expected since the site is covered by buildings and is paved. A vapor barrier and active soil vapor extraction system is at the site to prevent exposures from soil vapor intrusion. "

Dump: False
Structure: True
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-11-30 14:48:00
Record Upd: 2011-04-11 15:21:00
Updated By: IXMUNTEA
Own Op: 1
Sub Type: 06
Owner Name: John McDonald
Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
Own Op: 4
Sub Type: E
Owner Name: John McDonald
Owner Company: Porter Avenue HDFC A DIV. OF DOE FUND Inc.
Owner Address: 345 EAST 102ND STREET, 3RD FLOOR
Owner Addr2: Not reported
Owner City,St,Zip: NEW YORK, NY 10029
Owner Country: United States of America
Own Op: 6
Sub Type: P03
Owner Name: John McDonald
Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street, Third Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
HW Code: V00409
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: METHYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1,1,2-TETRACHLOROETHANE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Waste Code: Not reported
Crossref ID: 00-TEMP-03-24(I
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS
Crossref ID: 2010000128456
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2011-04-13 14:06:00
Record Updated: 2011-04-13 14:06:00
Updated By: JHOCONNE

Name: CORNISH KNIT GOODS/CORNISH MINI-MILLS
Address: 121 INGRAHAM ST./89 PORTER AVE.
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58133
Control Name: Monitoring Plan
HW Code: V00409
Control Code: 31
Control Type: INST
Dt record added: 05/10/2010
Dt rec updated: 11/08/2021
Updated By: MXMAGLOI
Site Code: 58133
Site Description: "Location: The Cornish Knit Goods/Cornish Mini-Mills site is located at 89 Porter Avenue, Brooklyn, NY. The former address of this site was 121 Ingraham Street/89-111 Porter Ave. The 0.57 acre site is in East Williamsburg, an urban area of Brooklyn. The tax map identifies the site as Block 2993, Lot 1. The site is bordered by Porter Avenue to the west, by Ingraham Street to the south, by Joyva Candy Factory's parking lot to the east, and by Johnson Avenue to the north. Site Features: The site is completely covered by a four story building, which was renovated in order to be designated for restricted residential use. Current zoning/use(s): The site is in an area zoned M1-2, light manufacturing. The site building is currently operated as the Peter Jay Sharp Center for Opportunity (PJSCO). The building is used as shelter and rehabilitation center for homeless men. The surrounding parcels are currently used for a combination of commercial, industrial and residential. Historical Use(s): Until 1980 the property was operated by Cornish Knit Goods/Cornish Mini-Mills as a textile factory. From 1980 until 1995, the building was vacant, and it was illegally operated as a dry cleaning facility and as a stolen car scrap yard. In 2000, the property was owned by ABC Closing Corp. and the owner entered in a Voluntary Cleanup Agreement (VCA) with NYSDEC. In 2003, site ownership was transferred to Porter Avenue HDFC, a subsidiary of the DOE Fund, Inc., and the VCA was amended to reflect the change in ownership. Dry cleaning activities and uncontrolled disposal of waste solvents (perchloroethylene, or PCE, and its breakdown product trichloroethylene, or TCE) led to contamination of the soil and groundwater at the site. Site Geology and Hydrogeology: The surficial geology in the vicinity of the site is characterized by layered loose sediment. Soils recovered from the western portion of the site appear to be loose sands and sediments to approximately nine feet below ground surface (bgs) mixed with fill material such as gravels, brick, and old timbers. From 9 feet bgs to

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

	the top of the water table (approximately 13 feet bgs), soils are compact clays and sands. Soils recovered from drilling in the eastern portion of the site were characterized as fill. Groundwater depth ranges from 7 feet below ground surface (ft bgs) at the northwest portion of the site, 11-11.5 ft bgs across the western portion of the site, and 12-12.5 ft bgs across the southeast portion of the site. "
Env Problem:	"Nature and Extent of the Contamination: Post-Remediation: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern at the site included the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (DCE) and vinyl chloride (VC) in soil, groundwater and soil vapor. A vapor barrier and an Air Sparge/Soil Vapor Extraction System (AS/SVES) were installed and are operating on site to mitigate the remaining PCE and TCE contamination in soil vapor. Remaining contamination in soil and groundwater is being managed under a Site Management Plan. "
Health Problem:	"Groundwater beneath the site is contaminated with volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), at levels above NYS drinking water standards. There are no active public water supply wells within a one mile radius of the site and public exposure to contaminated groundwater is unlikely because all businesses and residences are supplied by public water. Exposure to contaminated soil is not expected since the site is covered by buildings and is paved. A vapor barrier and active soil vapor extraction system is at the site to prevent exposures from soil vapor intrusion. "
Dump:	False
Structure:	True
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2009-11-30 14:48:00
Record Upd:	2011-04-11 15:21:00
Updated By:	IXMUNTEA
Own Op:	1
Sub Type:	06
Owner Name:	John McDonald
Owner Company:	The DOE Fund, Inc.
Owner Address:	345 East 102nd Street
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10029
Owner Country:	United States of America
Own Op:	4
Sub Type:	E
Owner Name:	John McDonald
Owner Company:	Porter Avenue HDFC A DIV. OF DOE FUND Inc.
Owner Address:	345 EAST 102ND STREET, 3RD FLOOR
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10029
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	John McDonald

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street, Third Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
HW Code: V00409
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: METHYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1,1,2-TETRACHLOROETHANE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 00-TEMP-03-24(I
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS
Crossref ID: 2010000128456
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2011-04-13 14:06:00
Record Updated: 2011-04-13 14:06:00
Updated By: JHOCONNE

Name: CORNISH KNIT GOODS/CORNISH MINI-MILLS
Address: 121 INGRAHAM ST./89 PORTER AVE.
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58133
Control Name: Deed Restriction
HW Code: V00409
Control Code: A
Control Type: INST
Dt record added: 05/10/2010
Dt rec updated: 11/08/2021
Updated By: MXMAGLOI

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Site Code: 58133

Site Description: "Location: The Cornish Knit Goods/Cornish Mini-Mills site is located at 89 Porter Avenue, Brooklyn, NY. The former address of this site was 121 Ingraham Street/89-111 Porter Ave. The 0.57 acre site is in East Williamsburg, an urban area of Brooklyn. The tax map identifies the site as Block 2993, Lot 1. The site is bordered by Porter Avenue to the west, by Ingraham Street to the south, by Joyva Candy Factory's parking lot to the east, and by Johnson Avenue to the north. Site Features: The site is completely covered by a four story building, which was renovated in order to be designated for restricted residential use. Current zoning/use(s): The site is in an area zoned M1-2, light manufacturing. The site building is currently operated as the Peter Jay Sharp Center for Opportunity (PJSCO). The building is used as shelter and rehabilitation center for homeless men. The surrounding parcels are currently used for a combination of commercial, industrial and residential. Historical Use(s): Until 1980 the property was operated by Cornish Knit Goods/Cornish Mini-Mills as a textile factory. From 1980 until 1995, the building was vacant, and it was illegally operated as a dry cleaning facility and as a stolen car scrap yard. In 2000, the property was owned by ABC Closing Corp. and the owner entered in a Voluntary Cleanup Agreement (VCA) with NYSDEC. In 2003, site ownership was transferred to Porter Avenue HDFC, a subsidiary of the DOE Fund, Inc., and the VCA was amended to reflect the change in ownership. Dry cleaning activities and uncontrolled disposal of waste solvents (perchloroethylene, or PCE, and its breakdown product trichloroethylene, or TCE) led to contamination of the soil and groundwater at the site. Site Geology and Hydrogeology: The surficial geology in the vicinity of the site is characterized by layered loose sediment. Soils recovered from the western portion of the site appear to be loose sands and sediments to approximately nine feet below ground surface (bgs) mixed with fill material such as gravels, brick, and old timbers. From 9 feet bgs to the top of the water table (approximately 13 feet bgs), soils are compact clays and sands. Soils recovered from drilling in the eastern portion of the site were characterized as fill. Groundwater depth ranges from 7 feet below ground surface (ft bgs) at the northwest portion of the site, 11-11.5 ft bgs across the western portion of the site, and 12-12.5 ft bgs across the southeast portion of the site. "

Env Problem: "Nature and Extent of the Contamination: Post-Remediation: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern at the site included the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (DCE) and vinyl chloride (VC) in soil, groundwater and soil vapor. A vapor barrier and an Air Sparge/Soil Vapor Extraction System (AS/SVES) were installed and are operating on site to mitigate the remaining PCE and TCE contamination in soil vapor. Remaining contamination in soil and groundwater is being managed under a Site Management Plan. "

Health Problem: "Groundwater beneath the site is contaminated with volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), at levels above NYS drinking water standards. There are no active public water supply wells within a one mile radius of the site and public exposure to contaminated groundwater is unlikely because all businesses and residences are supplied by public water. Exposure to contaminated soil is not expected since the site is covered by buildings and is paved. A vapor barrier and active soil vapor extraction system is at

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

the site to prevent exposures from soil vapor intrusion. "
Dump: False
Structure: True
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-11-30 14:48:00
Record Upd: 2011-04-11 15:21:00
Updated By: IXMUNTEA
Own Op: 1
Sub Type: 06
Owner Name: John McDonald
Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
Own Op: 4
Sub Type: E
Owner Name: John McDonald
Owner Company: Porter Avenue HDFC A DIV. OF DOE FUND Inc.
Owner Address: 345 EAST 102ND STREET, 3RD FLOOR
Owner Addr2: Not reported
Owner City,St,Zip: NEW YORK, NY 10029
Owner Country: United States of America
Own Op: 6
Sub Type: P03
Owner Name: John McDonald
Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street, Third Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
HW Code: V00409
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: METHYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

HW Code: V00409
Waste Type: 1,1,1,2-TETRACHLOROETHANE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 00-TEMP-03-24(I
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS
Crossref ID: 2010000128456
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2011-04-13 14:06:00
Record Updated: 2011-04-13 14:06:00
Updated By: JHOCONNE

Name: CORNISH KNIT GOODS/CORNISH MINI-MILLS
Address: 121 INGRAHAM ST./89 PORTER AVE.
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58133
Control Name: Landuse Restriction
HW Code: V00409
Control Code: 25
Control Type: INST
Dt record added: 05/10/2010
Dt rec updated: 11/08/2021
Updated By: MXMAGLOI
Site Code: 58133
Site Description: "Location: The Cornish Knit Goods/Cornish Mini-Mills site is located at 89 Porter Avenue, Brooklyn, NY. The former address of this site was 121 Ingraham Street/89-111 Porter Ave. The 0.57 acre site is in East Williamsburg, an urban area of Brooklyn. The tax map identifies the site as Block 2993, Lot 1. The site is bordered by Porter Avenue to the west, by Ingraham Street to the south, by Joyva Candy Factory's parking lot to the east, and by Johnson Avenue to the north. Site Features: The site is completely covered by a four story building, which was renovated in order to be designated for restricted residential use. Current zoning/use(s): The site is in an area zoned M1-2, light manufacturing. The site building is currently operated as the Peter Jay Sharp Center for Opportunity (PJSCO). The building is used as shelter and rehabilitation center for homeless men. The surrounding parcels are currently used for a combination of commercial, industrial and residential. Historical Use(s): Until 1980 the property was operated by Cornish Knit Goods/Cornish Mini-Mills as a textile factory. From 1980 until 1995, the building was vacant, and it was illegally operated as a dry cleaning facility and as a stolen car scrap yard. In 2000, the property was owned by ABC Closing Corp. and the owner entered in a Voluntary Cleanup Agreement (VCA) with NYSDEC. In 2003, site ownership was transferred to Porter Avenue HDFC, a subsidiary of the DOE Fund, Inc., and the VCA was amended to reflect the change in ownership. Dry cleaning activities and uncontrolled disposal of waste solvents (perchloroethylene, or PCE,

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

and its breakdown product trichloroethylene, or TCE) led to contamination of the soil and groundwater at the site. Site Geology and Hydrogeology: The surficial geology in the vicinity of the site is characterized by layered loose sediment. Soils recovered from the western portion of the site appear to be loose sands and sediments to approximately nine feet below ground surface (bgs) mixed with fill material such as gravels, brick, and old timbers. From 9 feet bgs to the top of the water table (approximately 13 feet bgs), soils are compact clays and sands. Soils recovered from drilling in the eastern portion of the site were characterized as fill. Groundwater depth ranges from 7 feet below ground surface (ft bgs) at the northwest portion of the site, 11-11.5 ft bgs across the western portion of the site, and 12-12.5 ft bgs across the southeast portion of the site. "

Env Problem: "Nature and Extent of the Contamination: Post-Remediation: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern at the site included the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (DCE) and vinyl chloride (VC) in soil, groundwater and soil vapor. A vapor barrier and an Air Sparge/Soil Vapor Extraction System (AS/SVES) were installed and are operating on site to mitigate the remaining PCE and TCE contamination in soil vapor. Remaining contamination in soil and groundwater is being managed under a Site Management Plan. "

Health Problem: "Groundwater beneath the site is contaminated with volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), at levels above NYS drinking water standards. There are no active public water supply wells within a one mile radius of the site and public exposure to contaminated groundwater is unlikely because all businesses and residences are supplied by public water. Exposure to contaminated soil is not expected since the site is covered by buildings and is paved. A vapor barrier and active soil vapor extraction system is at the site to prevent exposures from soil vapor intrusion. "

Dump: False
Structure: True
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-11-30 14:48:00
Record Upd: 2011-04-11 15:21:00
Updated By: IXMUNTEA
Own Op: 1
Sub Type: 06
Owner Name: John McDonald
Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
Own Op: 4
Sub Type: E
Owner Name: John McDonald
Owner Company: Porter Avenue HDFC A DIV. OF DOE FUND Inc.

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Owner Address: 345 EAST 102ND STREET, 3RD FLOOR
Owner Addr2: Not reported
Owner City,St,Zip: NEW YORK, NY 10029
Owner Country: United States of America
Own Op: 6
Sub Type: P03
Owner Name: John McDonald
Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street, Third Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
HW Code: V00409
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: METHYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1,1,2-TETRACHLOROETHANE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 00-TEMP-03-24(I
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS
Crossref ID: 2010000128456
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2011-04-13 14:06:00
Record Updated: 2011-04-13 14:06:00
Updated By: JHOCONNE

Name: CORNISH KNIT GOODS/CORNISH MINI-MILLS
Address: 121 INGRAHAM ST./89 PORTER AVE.
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58133

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Control Name: O&M Plan
HW Code: V00409
Control Code: 33
Control Type: INST
Dt record added: 05/10/2010
Dt rec updated: 11/08/2021
Updated By: MXMAGLOI
Site Code: 58133
Site Description: "Location: The Cornish Knit Goods/Cornish Mini-Mills site is located at 89 Porter Avenue, Brooklyn, NY. The former address of this site was 121 Ingraham Street/89-111 Porter Ave. The 0.57 acre site is in East Williamsburg, an urban area of Brooklyn. The tax map identifies the site as Block 2993, Lot 1. The site is bordered by Porter Avenue to the west, by Ingraham Street to the south, by Joyva Candy Factory's parking lot to the east, and by Johnson Avenue to the north. Site Features: The site is completely covered by a four story building, which was renovated in order to be designated for restricted residential use. Current zoning/use(s): The site is in an area zoned M1-2, light manufacturing. The site building is currently operated as the Peter Jay Sharp Center for Opportunity (PJSCO). The building is used as shelter and rehabilitation center for homeless men. The surrounding parcels are currently used for a combination of commercial, industrial and residential. Historical Use(s): Until 1980 the property was operated by Cornish Knit Goods/Cornish Mini-Mills as a textile factory. From 1980 until 1995, the building was vacant, and it was illegally operated as a dry cleaning facility and as a stolen car scrap yard. In 2000, the property was owned by ABC Closing Corp. and the owner entered in a Voluntary Cleanup Agreement (VCA) with NYSDEC. In 2003, site ownership was transferred to Porter Avenue HDFC, a subsidiary of the DOE Fund, Inc., and the VCA was amended to reflect the change in ownership. Dry cleaning activities and uncontrolled disposal of waste solvents (perchloroethylene, or PCE, and its breakdown product trichloroethylene, or TCE) led to contamination of the soil and groundwater at the site. Site Geology and Hydrogeology: The surficial geology in the vicinity of the site is characterized by layered loose sediment. Soils recovered from the western portion of the site appear to be loose sands and sediments to approximately nine feet below ground surface (bgs) mixed with fill material such as gravels, brick, and old timbers. From 9 feet bgs to the top of the water table (approximately 13 feet bgs), soils are compact clays and sands. Soils recovered from drilling in the eastern portion of the site were characterized as fill. Groundwater depth ranges from 7 feet below ground surface (ft bgs) at the northwest portion of the site, 11-11.5 ft bgs across the western portion of the site, and 12-12.5 ft bgs across the southeast portion of the site. "
Env Problem: "Nature and Extent of the Contamination: Post-Remediation: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern at the site included the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (DCE) and vinyl chloride (VC) in soil, groundwater and soil vapor. A vapor barrier and an Air Sparge/Soil Vapor Extraction System (AS/SVES) were installed and are operating on site to mitigate the remaining PCE and TCE contamination in soil vapor. Remaining contamination in soil and groundwater is being managed under a Site Management Plan. "
Health Problem: "Groundwater beneath the site is contaminated with volatile organic

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

compounds (VOCs), primarily tetrachloroethene (PCE), at levels above NYS drinking water standards. There are no active public water supply wells within a one mile radius of the site and public exposure to contaminated groundwater is unlikely because all businesses and residences are supplied by public water. Exposure to contaminated soil is not expected since the site is covered by buildings and is paved. A vapor barrier and active soil vapor extraction system is at the site to prevent exposures from soil vapor intrusion. "

Dump: False
Structure: True
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-11-30 14:48:00
Record Upd: 2011-04-11 15:21:00
Updated By: IXMUNTEA
Own Op: 1
Sub Type: 06
Owner Name: John McDonald
Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
Own Op: 4
Sub Type: E
Owner Name: John McDonald
Owner Company: Porter Avenue HDFC A DIV. OF DOE FUND Inc.
Owner Address: 345 EAST 102ND STREET, 3RD FLOOR
Owner Addr2: Not reported
Owner City,St,Zip: NEW YORK, NY 10029
Owner Country: United States of America
Own Op: 6
Sub Type: P03
Owner Name: John McDonald
Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street, Third Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
HW Code: V00409
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: METHYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1,1,2-TETRACHLOROETHANE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 00-TEMP-03-24(I
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS
Crossref ID: 2010000128456
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2011-04-13 14:06:00
Record Updated: 2011-04-13 14:06:00
Updated By: JHOCONNE

Name: CORNISH KNIT GOODS/CORNISH MINI-MILLS
Address: 121 INGRAHAM ST./89 PORTER AVE.
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58133
Control Name: Ground Water Use Restriction
HW Code: V00409
Control Code: 08
Control Type: INST
Dt record added: 05/10/2010
Dt rec updated: 11/08/2021
Updated By: MXMAGLOI
Site Code: 58133
Site Description: "Location: The Cornish Knit Goods/Cornish Mini-Mills site is located at 89 Porter Avenue, Brooklyn, NY. The former address of this site was 121 Ingraham Street/89-111 Porter Ave. The 0.57 acre site is in East Williamsburg, an urban area of Brooklyn. The tax map identifies the site as Block 2993, Lot 1. The site is bordered by Porter Avenue to the west, by Ingraham Street to the south, by Joyva Candy Factory’s parking lot to the east, and by Johnson Avenue to the north. Site Features: The site is completely covered by a four story building, which was renovated in order to be designated for restricted residential use. Current zoning/use(s): The site is in an area zoned M1-2, light manufacturing. The site building is currently operated as the Peter Jay Sharp Center for Opportunity (PJSCO). The building is used as shelter and rehabilitation center for homeless men. The surrounding parcels are currently used for a combination of commercial, industrial and residential. Historical Use(s): Until 1980 the property was operated by Cornish Knit Goods/Cornish Mini-Mills as a textile factory. From 1980 until 1995, the building was vacant, and

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

it was illegally operated as a dry cleaning facility and as a stolen car scrap yard. In 2000, the property was owned by ABC Closing Corp. and the owner entered in a Voluntary Cleanup Agreement (VCA) with NYSDEC. In 2003, site ownership was transferred to Porter Avenue HDFC, a subsidiary of the DOE Fund, Inc., and the VCA was amended to reflect the change in ownership. Dry cleaning activities and uncontrolled disposal of waste solvents (perchloroethylene, or PCE, and its breakdown product trichloroethylene, or TCE) led to contamination of the soil and groundwater at the site. Site Geology and Hydrogeology: The surficial geology in the vicinity of the site is characterized by layered loose sediment. Soils recovered from the western portion of the site appear to be loose sands and sediments to approximately nine feet below ground surface (bgs) mixed with fill material such as gravels, brick, and old timbers. From 9 feet bgs to the top of the water table (approximately 13 feet bgs), soils are compact clays and sands. Soils recovered from drilling in the eastern portion of the site were characterized as fill. Groundwater depth ranges from 7 feet below ground surface (ft bgs) at the northwest portion of the site, 11-11.5 ft bgs across the western portion of the site, and 12-12.5 ft bgs across the southeast portion of the site. "

Env Problem: "Nature and Extent of the Contamination: Post-Remediation: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern at the site included the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (DCE) and vinyl chloride (VC) in soil, groundwater and soil vapor. A vapor barrier and an Air Sparge/Soil Vapor Extraction System (AS/SVES) were installed and are operating on site to mitigate the remaining PCE and TCE contamination in soil vapor. Remaining contamination in soil and groundwater is being managed under a Site Management Plan. "

Health Problem: "Groundwater beneath the site is contaminated with volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), at levels above NYS drinking water standards. There are no active public water supply wells within a one mile radius of the site and public exposure to contaminated groundwater is unlikely because all businesses and residences are supplied by public water. Exposure to contaminated soil is not expected since the site is covered by buildings and is paved. A vapor barrier and active soil vapor extraction system is at the site to prevent exposures from soil vapor intrusion. "

Dump: False
Structure: True
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-11-30 14:48:00
Record Upd: 2011-04-11 15:21:00
Updated By: IXMUNTEA
Own Op: 1
Sub Type: 06
Owner Name: John McDonald
Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
Own Op: 4
Sub Type: E
Owner Name: John McDonald
Owner Company: Porter Avenue HDFC A DIV. OF DOE FUND Inc.
Owner Address: 345 EAST 102ND STREET, 3RD FLOOR
Owner Addr2: Not reported
Owner City,St,Zip: NEW YORK, NY 10029
Owner Country: United States of America
Own Op: 6
Sub Type: P03
Owner Name: John McDonald
Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street, Third Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
HW Code: V00409
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: METHYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1,1,2-TETRACHLOROETHANE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 00-TEMP-03-24(I
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS
Crossref ID: 2010000128456
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2011-04-13 14:06:00

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Record Updated: 2011-04-13 14:06:00
Updated By: JHOCONNE

Name: CORNISH KNIT GOODS/CORNISH MINI-MILLS
Address: 121 INGRAHAM ST./89 PORTER AVE.
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58133
Control Name: Site Management Plan
HW Code: V00409
Control Code: 32
Control Type: INST
Dt record added: 05/10/2010
Dt rec updated: 11/08/2021
Updated By: MXMAGLOI
Site Code: 58133
Site Description: "Location: The Cornish Knit Goods/Cornish Mini-Mills site is located at 89 Porter Avenue, Brooklyn, NY. The former address of this site was 121 Ingraham Street/89-111 Porter Ave. The 0.57 acre site is in East Williamsburg, an urban area of Brooklyn. The tax map identifies the site as Block 2993, Lot 1. The site is bordered by Porter Avenue to the west, by Ingraham Street to the south, by Joyva Candy Factory's parking lot to the east, and by Johnson Avenue to the north. Site Features: The site is completely covered by a four story building, which was renovated in order to be designated for restricted residential use. Current zoning/use(s): The site is in an area zoned M1-2, light manufacturing. The site building is currently operated as the Peter Jay Sharp Center for Opportunity (PJSCO). The building is used as shelter and rehabilitation center for homeless men. The surrounding parcels are currently used for a combination of commercial, industrial and residential. Historical Use(s): Until 1980 the property was operated by Cornish Knit Goods/Cornish Mini-Mills as a textile factory. From 1980 until 1995, the building was vacant, and it was illegally operated as a dry cleaning facility and as a stolen car scrap yard. In 2000, the property was owned by ABC Closing Corp. and the owner entered in a Voluntary Cleanup Agreement (VCA) with NYSDEC. In 2003, site ownership was transferred to Porter Avenue HDFC, a subsidiary of the DOE Fund, Inc., and the VCA was amended to reflect the change in ownership. Dry cleaning activities and uncontrolled disposal of waste solvents (perchloroethylene, or PCE, and its breakdown product trichloroethylene, or TCE) led to contamination of the soil and groundwater at the site. Site Geology and Hydrogeology: The surficial geology in the vicinity of the site is characterized by layered loose sediment. Soils recovered from the western portion of the site appear to be loose sands and sediments to approximately nine feet below ground surface (bgs) mixed with fill material such as gravels, brick, and old timbers. From 9 feet bgs to the top of the water table (approximately 13 feet bgs), soils are compact clays and sands. Soils recovered from drilling in the eastern portion of the site were characterized as fill. Groundwater depth ranges from 7 feet below ground surface (ft bgs) at the northwest portion of the site, 11-11.5 ft bgs across the western portion of the site, and 12-12.5 ft bgs across the southeast portion of the site. "
Env Problem: "Nature and Extent of the Contamination: Post-Remediation: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern at the site included the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

(DCE) and vinyl chloride (VC) in soil, groundwater and soil vapor. A vapor barrier and an Air Sparge/Soil Vapor Extraction System (AS/SVES) were installed and are operating on site to mitigate the remaining PCE and TCE contamination in soil vapor. Remaining contamination in soil and groundwater is being managed under a Site Management Plan. "

Health Problem: "Groundwater beneath the site is contaminated with volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), at levels above NYS drinking water standards. There are no active public water supply wells within a one mile radius of the site and public exposure to contaminated groundwater is unlikely because all businesses and residences are supplied by public water. Exposure to contaminated soil is not expected since the site is covered by buildings and is paved. A vapor barrier and active soil vapor extraction system is at the site to prevent exposures from soil vapor intrusion. "
Dump: False
Structure: True
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-11-30 14:48:00
Record Upd: 2011-04-11 15:21:00
Updated By: IXMUNTEA
Own Op: 1
Sub Type: 06
Owner Name: John McDonald
Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
Own Op: 4
Sub Type: E
Owner Name: John McDonald
Owner Company: Porter Avenue HDFC A DIV. OF DOE FUND Inc.
Owner Address: 345 EAST 102ND STREET, 3RD FLOOR
Owner Addr2: Not reported
Owner City,St,Zip: NEW YORK, NY 10029
Owner Country: United States of America
Own Op: 6
Sub Type: P03
Owner Name: John McDonald
Owner Company: The DOE Fund, Inc.
Owner Address: 345 East 102nd Street, Third Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10029
Owner Country: United States of America
HW Code: V00409
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: DICHLOROETHYLENE

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: METHYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: 1,1,1,2-TETRACHLOROETHANE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00409
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 00-TEMP-03-24(I
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS
Crossref ID: 2010000128456
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 2011-04-13 14:06:00
Record Updated: 2011-04-13 14:06:00
Updated By: JHOCONNE

VCP:
Name: CORNISH KNIT GOODS/CORNISH MINI-MILLS
Address: 121 INGRAHAM ST./89 PORTER AVE.
City,State,Zip: BROOKLYN, NY 11237
Program Type: VCP
Site Code: 58133
HW Code: V00409
Site Class: C
SWIS: 2401
Region: 2
Town: New York City
Acres: 0.570
Date Record Added: 11/30/2000
Date Record Updated: 07/09/2018
Updated By: MXMAGLOI
Site Description: "Location: The Cornish Knit Goods/Cornish Mini-Mills site is located at 89 Porter Avenue, Brooklyn, NY. The former address of this site was 121 Ingraham Street/89-111 Porter Ave. The 0.57 acre site is in East Williamsburg, an urban area of Brooklyn. The tax map identifies the site as Block 2993, Lot 1. The site is bordered by Porter Avenue to the west, by Ingraham Street to the south, by Joyva Candy Factory’s parking lot to the east, and by Johnson Avenue to the

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

north. Site Features: The site is completely covered by a four story building, which was renovated in order to be designated for restricted residential use. Current zoning/use(s): The site is in an area zoned M1-2, light manufacturing. The site building is currently operated as the Peter Jay Sharp Center for Opportunity (PJSCO). The building is used as shelter and rehabilitation center for homeless men. The surrounding parcels are currently used for a combination of commercial, industrial and residential. Historical Use(s): Until 1980 the property was operated by Cornish Knit Goods/Cornish Mini-Mills as a textile factory. From 1980 until 1995, the building was vacant, and it was illegally operated as a dry cleaning facility and as a stolen car scrap yard. In 2000, the property was owned by ABC Closing Corp. and the owner entered in a Voluntary Cleanup Agreement (VCA) with NYSDEC. In 2003, site ownership was transferred to Porter Avenue HDFC, a subsidiary of the DOE Fund, Inc., and the VCA was amended to reflect the change in ownership. Dry cleaning activities and uncontrolled disposal of waste solvents (perchloroethylene, or PCE, and its breakdown product trichloroethylene, or TCE) led to contamination of the soil and groundwater at the site. Site Geology and Hydrogeology: The surficial geology in the vicinity of the site is characterized by layered loose sediment. Soils recovered from the western portion of the site appear to be loose sands and sediments to approximately nine feet below ground surface (bgs) mixed with fill material such as gravels, brick, and old timbers. From 9 feet bgs to the top of the water table (approximately 13 feet bgs), soils are compact clays and sands. Soils recovered from drilling in the eastern portion of the site were characterized as fill. Groundwater depth ranges from 7 feet below ground surface (ft bgs) at the northwest portion of the site, 11-11.5 ft bgs across the western portion of the site, and 12-12.5 ft bgs across the southeast portion of the site. "

Env Problem: "Nature and Extent of the Contamination: Post-Remediation: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern at the site included the volatile organic compounds (VOCs) tetrachloroethylene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (DCE) and vinyl chloride (VC) in soil, groundwater and soil vapor. A vapor barrier and an Air Sparge/Soil Vapor Extraction System (AS/SVES) were installed and are operating on site to mitigate the remaining PCE and TCE contamination in soil vapor. Remaining contamination in soil and groundwater is being managed under a Site Management Plan. "

Health Problem: "Groundwater beneath the site is contaminated with volatile organic compounds (VOCs), primarily tetrachloroethene (PCE), at levels above NYS drinking water standards. There are no active public water supply wells within a one mile radius of the site and public exposure to contaminated groundwater is unlikely because all businesses and residences are supplied by public water. Exposure to contaminated soil is not expected since the site is covered by buildings and is paved. A vapor barrier and active soil vapor extraction system is at the site to prevent exposures from soil vapor intrusion. "

Dump: False
Structure: True
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2009-11-30 14:48:00
Record Upd:	2011-04-11 15:21:00
Updated By:	IXMUNTEA
Own Op:	1
Sub Type:	06
Owner Name:	John McDonald
Owner Company:	The DOE Fund, Inc.
Owner Address:	345 East 102nd Street
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10029
Owner Country:	United States of America
Own Op:	4
Sub Type:	E
Owner Name:	John McDonald
Owner Company:	Porter Avenue HDFC A DIV. OF DOE FUND Inc.
Owner Address:	345 EAST 102ND STREET, 3RD FLOOR
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10029
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	John McDonald
Owner Company:	The DOE Fund, Inc.
Owner Address:	345 East 102nd Street, Third Floor
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10029
Owner Country:	United States of America
HW Code:	V00409
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	DICHLOROETHYLENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	METHYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	VINYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	1,1 Dichloroethene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	1,1,1,2-TETRACHLOROETHANE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00409
Waste Type:	Hazardous Substances
Waste Quantity:	UNKNOWN
Waste Code:	Not reported

CORNISH KNIT GOODS/CORNISH MINI-MILLS (Continued) **S110043685**

Crossref ID:	00-TEMP-03-24(I
Cross Ref Type Code:	20
Cross Ref Type:	Haz. Substance ID
Record Added Date:	2000-11-30 16:07:00
Record Updated:	2005-02-24 15:54:00
Updated By:	VCPTRANS
Crossref ID:	2010000128456
Cross Ref Type Code:	25
Cross Ref Type:	County Recording Identifier
Record Added Date:	2011-04-13 14:06:00
Record Updated:	2011-04-13 14:06:00
Updated By:	JHOCONNE

AJ201 **CORNISH MINI MILLS** **NY LTANKS** **S102232671**
South **121 INGRAHAM ST** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.346 mi.
1827 ft. **Site 2 of 4 in cluster AJ**

Relative: **Higher**

Actual: **17 ft.**

LTANKS:

Name:	CORNISH MINI MILLS
Address:	121 INGRAHAM ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9600503 / 1996-11-22
Facility ID:	9600503
Site ID:	239705
Spill Date:	1996-04-11
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1996-04-11
CID:	270
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1996-04-11
Spill Record Last Update:	2000-04-25
Spiller Name:	H2M GROUP
Spiller Company:	CORNISH MINI MILLS
Spiller Address:	121 INGRAHAM ST
Spiller County:	001
Spiller Contact:	H2M GROUP
Spiller Phone:	(516) 756-8000
Spiller Extention:	484
DEC Region:	2
DER Facility ID:	197159
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE HAS A PLATE THAT IS JUST BOLTED DOWN. NO SPILL."
Remarks:	"facility has two tank on site 5000 gal tank was not tested but deemed un testable"

CORNISH MINI MILLS (Continued) **S102232671**

All TTF:

Facility ID:	9600503
Spill Number:	9600503
Spill Tank Test:	1544470
Site ID:	239705
Tank Number:	1
Tank Size:	10000
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	01
Test Method 2:	Petro-Tite/Petro Comp
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	239705
Operable Unit ID:	1031931
Operable Unit:	01
Material ID:	353898
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AG202 **TANKS-A-LOT CO** **SEMS-ARCHIVE** **1003863743**
North **362 MASPETH AVE** **NYD980509228**
1/4-1/2 **BROOKLYN, NY 11211**
0.348 mi.
1840 ft. **Site 3 of 7 in cluster AG**

Relative:
Lower

Actual:
12 ft.

SEMS Archive:

Site ID:	0201827
EPA ID:	NYD980509228
Name:	TANKS-A-LOT CO
Address:	362 MASPETH AVE
Address 2:	Not reported
City,State,Zip:	BROOKLYN, NY 11211
Cong District:	12
FIPS Code:	36047
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	02
Site ID:	0201827
EPA ID:	NYD980509228

TANKS-A-LOT CO (Continued) **1003863743**

Site Name:	TANKS-A-LOT CO
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1980-07-01 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	02
Site ID:	0201827
EPA ID:	NYD980509228
Site Name:	TANKS-A-LOT CO
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-04-01 05:00:00
Finish Date:	1980-04-01 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	02
Site ID:	0201827
EPA ID:	NYD980509228
Site Name:	TANKS-A-LOT CO
NPL:	N
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1980-07-01 04:00:00
Finish Date:	1980-07-01 04:00:00
Qual:	N
Current Action Lead:	EPA Perf

Region:	02
Site ID:	0201827
EPA ID:	NYD980509228
Site Name:	TANKS-A-LOT CO
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1980-07-01 04:00:00
Qual:	L
Current Action Lead:	EPA Perf

AG203 **TANKS-A-LOT COMPANY** **NY HSWDS** **S108146424**
North **362 MASPETH AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY 11211**
0.348 mi.
1840 ft. **Site 4 of 7 in cluster AG**

Relative:
Lower

Actual:
12 ft.

HSWDS:

Facility ID:	Not reported
Region:	2
Facility Status:	Unknown
Owner Type:	Puplic
Owner:	David Calleia
Owner Address:	362 Maspeth Ave.
Owner Phone:	(212)647-0700
Operator Type:	Same
Operator:	Unknown
Operator:	Unknown
Operator Phone:	Unknown
EPA ID:	NYD000010024
Registry:	Not on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID:	None
RCRA Permitted:	Unknown
Site Code:	Leaking tanks, drums, lagoons, other containers
Owner City State:	Brooklyn
Operator City State:	Not reported
Quadrange:	Unknown
Latitude:	Unknown
Longitude:	Unknown
Acres:	0.00
Operator Date:	Unknown
Close Date:	Unknown
Completed:	Unknown
Active:	Not reported
PCB's Disposed:	No
Pesticides Disposed:	No
Metals Disposed:	No
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	No
Semi Volatile Organic Compounds Disposed:	No
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	None
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	None
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	Unknown
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Unknown

TANKS-A-LOT COMPANY (Continued) **S108146424**

Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

AG204 **BCF OIL REFINING, INC** **NY SWF/LF** **1001754932**
NNW **360 MASPETH AVENUE** **NY LTANKS** **N/A**
1/4-1/2 **BROOKLYN, NY 11211** **NY MOSF UST**
0.351 mi. **NY MOSF**
1852 ft. **Site 5 of 7 in cluster AG** **NY MOSF AST**
NY Spills
Relative: **NY SPDES**
Lower

Actual: **12 ft.**

SWF/LF:

Name:	BCF OIL REFINING INC.
Address:	360 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Flag:	INACTIVE
Region Code:	2
Phone Number:	7183879710
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	SALVATORE CORTESE
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported

BCF OIL REFINING, INC (Continued) **1001754932**

Contact Phone:	Not reported
Activity Desc:	Waste oil storage; reprocessing or rerefining facility
Activity Number:	[24O59]
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	1 - No accuracy stated
Regulatory Status:	None
Waste Type:	Not reported
Authorization #:	2-6101-00075
Authorization Date:	8/21/1992
Expiration Date:	8/21/1995
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

LTANKS:

Name:	BCF REFINING
Address:	360 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9008251 / 2003-09-02
Facility ID:	9008251
Site ID:	80010
Spill Date:	1990-09-25
Spill Cause:	Tank Failure
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Class:	A1
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1990-10-26
CID:	Not reported
Water Affected:	ENGLISH KILLS
Spill Notifier:	Federal Government
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1990-11-05
Spill Record Last Update:	2003-09-02
Spiller Name:	Not reported
Spiller Company:	BCF OIL REFINING
Spiller Address:	360 MASPETH AVENUE
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	74202
DEC Memo:	""
Remarks:	"SLICK OF OIL APPROX 8FT X 2FT FOUND ON SHORELINE ADJACENT TO PROPERTY,GROUND SATURATED WITH OIL, DEPLOYED BOOM, NYCDEP AT SCENE."

All Materials:

Site ID:	80010

BCF OIL REFINING, INC (Continued) **1001754932**

Operable Unit ID: 945466
Operable Unit: 01
Material ID: 562071
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: BCF OIL REFINING
Address: 360 MASPETH AVENUE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 9112627 / 2003-09-02
Facility ID: 9112627
Site ID: 211456
Spill Date: 1992-03-11
Spill Cause: Tank Failure
Spill Source: Major Facility (MOSF) > 400,000 gal
Spill Class: A1
Cleanup Ceased: Not reported
SWIS: 2401
Investigator: SIGONA
Referred To: Not reported
Reported to Dept: 1992-03-11
CID: Not reported
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1992-03-11
Spill Record Last Update: 2003-09-02
Spiller Name: SAL CORTESE
Spiller Company: BCF OIL REFINNING, INC.
Spiller Address: 360 MASPETH AVENUE
Spiller County: 001
Spiller Contact: SAL CORTESE
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 74202
DEC Memo: ""
Remarks: "MOSF # 02-2600; PRODUCT DISCOVERED IN MONITORING WELL # 1"

All Materials:
Site ID: 211456
Operable Unit ID: 966221
Operable Unit: 01
Material ID: 414191
Material Code: 0009
Material Name: gasoline
Case No.: Not reported

BCF OIL REFINING, INC (Continued) **1001754932**

Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: True

Site ID: 211456
Operable Unit ID: 966221
Operable Unit: 01
Material ID: 572806
Material Code: 1213A
Material Name: MTBE (methyl-tert-butyl ether)
Case No.: 01634044
Material FA: Hazardous Material
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Oxygenate: True

Site ID: 211456
Operable Unit ID: 966221
Operable Unit: 01
Material ID: 414192
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: True

MOSF UST:
Id/Status: 2-2600 / INACTIVE FACILITY
SWIS Code: 61
Facility Town: Not reported
Contact Phone: (718) 387-9710
Emergency Contact: SALVATORE CORTESE
Emergency Telephone: (718) 387-9710
CBS Number: Not reported
SPDES Num: 0-036609
Total Tanks: 19
Total Capacity: 780574
Avg Throughput: 20000
License Stat: 3
Facility Type: APARTMENT BUILDING
Prod Xfer Options: Tank Truck
Expiration Date: / /
Applic Rcvd: 02/09/1995
Operator: SALVATORE CORTESE
Owner Name: BCF OIL REFINING, INC
Owner Address: 360 MASPETH AVENUE
Owner City,St,Zip: BROOKLYN, NY 11211-
Owner Telephone: (718) 387-9710
Owner Type: Corporate/Commercial
Owner Status: 1

BCF OIL REFINING, INC (Continued) **1001754932**

Owner Mark:	First Owner
Mail To Name:	BCF OIL REFINING, INC
Mail To Address:	360 MASPETH AVENUE
Mail To Address 2:	Not reported
Mail City,St,Zip:	BROOKLYN, NY 11211-
Mail To Contact:	SALVATORE CORTESE
Mail To Telephone:	(718) 387-9710
Legal Agent Name:	GILBERT WALLACH, ESQ.
Legal Agent Address:	50 BROADWAY-25 FLOOR
Legal Agent City,St,Zip:	NEW YORK, NY 10004-
Date Filed:	00/86
Latitude:	40|43|40
Longitude:	73|54|52

Tank ID:	01
Tank Location:	UNDERGROUND
Install Date:	04/82
Capacity (Gal):	20000
Product:	UNKNOWN
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	05/93
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	02
Tank Location:	UNDERGROUND
Install Date:	04/82
Capacity (Gal):	20000
Product:	UNKNOWN
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON

BCF OIL REFINING, INC (Continued) **1001754932**

Pipe Internal: None
Pipe External: Wrapped (Piping)
Second Contain: Diking
Leak Detection: None
Overfill Protection: High Level Alarm
Dispenser: Suction
Test Date: 05/93
Date Closed: Not reported
Status of Data: Complete
Inspected Date: 07/09/1999
Inspector Initials: AS
Inspector Status: Not reported
Pipe Flag: True
License Issued: / /
Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/03/1995
Federal Id No: Not reported
COI Date: / /

Tank ID: 03
Tank Location: UNDERGROUND
Install Date: 04/82
Capacity (Gal): 20000
Product: UNKNOWN
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Aboveground/Underground Combination
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Wrapped (Piping)
Second Contain: Diking
Leak Detection: None
Overfill Protection: High Level Alarm
Dispenser: Suction
Test Date: 06/94
Date Closed: Not reported
Status of Data: Complete
Inspected Date: 07/09/1999
Inspector Initials: AS
Inspector Status: Not reported
Pipe Flag: True
License Issued: / /
Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/03/1995
Federal Id No: Not reported
COI Date: / /

Tank ID: 04
Tank Location: UNDERGROUND
Install Date: 04/82
Capacity (Gal): 20000

BCF OIL REFINING, INC (Continued) **1001754932**

Product:	UNKNOWN
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	05
Tank Location:	UNDERGROUND
Install Date:	04/82
Capacity (Gal):	20000
Product:	UNKNOWN
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	05/93
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported

BCF OIL REFINING, INC (Continued) **1001754932**

COI Date: / /

Tank ID: 06
Tank Location: UNDERGROUND
Install Date: 04/82
Capacity (Gal): 20000
Product: UNKNOWN
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Aboveground/Underground Combination
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Wrapped (Piping)
Second Contain: Diking
Leak Detection: None
Overfill Protection: High Level Alarm
Dispenser: Suction
Test Date: Not reported
Date Closed: Not reported
Status of Data: Complete
Inspected Date: 07/09/1999
Inspector Initials: AS
Inspector Status: Not reported
Pipe Flag: True
License Issued: / /
Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/03/1995
Federal Id No: Not reported
COI Date: / /

Tank ID: 07
Tank Location: UNDERGROUND
Install Date: 04/82
Capacity (Gal): 20000
Product: UNKNOWN
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Aboveground/Underground Combination
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Wrapped (Piping)
Second Contain: Diking
Leak Detection: None
Overfill Protection: High Level Alarm
Dispenser: Suction
Test Date: 06/94
Date Closed: Not reported
Status of Data: Complete
Inspected Date: 07/09/1999
Inspector Initials: AS

BCF OIL REFINING, INC (Continued) **1001754932**

Inspector Status: Not reported
Pipe Flag: True
License Issued: / /
Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/03/1995
Federal Id No: Not reported
COI Date: / /

Tank ID: 08
Tank Location: UNDERGROUND
Install Date: 04/82
Capacity (Gal): 20000
Product: UNKNOWN
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Aboveground/Underground Combination
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Wrapped (Piping)
Second Contain: Diking
Leak Detection: None
Overfill Protection: High Level Alarm
Dispenser: Suction
Test Date: Not reported
Date Closed: Not reported
Status of Data: Complete
Inspected Date: 07/09/1999
Inspector Initials: AS
Inspector Status: Not reported
Pipe Flag: True
License Issued: / /
Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/03/1995
Federal Id No: Not reported
COI Date: / /

Tank ID: 09
Tank Location: UNDERGROUND
Install Date: 04/82
Capacity (Gal): 20000
Product: UNKNOWN
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Aboveground/Underground Combination
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Wrapped (Piping)
Second Contain: Diking
Leak Detection: None

BCF OIL REFINING, INC (Continued) **1001754932**

Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	10
Tank Location:	UNDERGROUND
Install Date:	01/89
Capacity (Gal):	6000
Product:	UNKNOWN
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	05/93
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	15
Tank Location:	UNDERGROUND
Install Date:	04/82
Capacity (Gal):	50000
Product:	NOS 5 OR 6 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None

BCF OIL REFINING, INC (Continued) **1001754932**

Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	05/93
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	16
Tank Location:	UNDERGROUND
Install Date:	04/82
Capacity (Gal):	100000
Product:	NOS 5 OR 6 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	18

BCF OIL REFINING, INC (Continued) **1001754932**

Tank Location:	UNDERGROUND
Install Date:	04/85
Capacity (Gal):	4000
Product:	DIESEL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	None
Leak Detection:	None
Overfill Protection:	None
Dispenser:	Suction
Test Date:	06/94
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	19
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	550
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported

BCF OIL REFINING, INC (Continued) **1001754932**

Renew Flag: True
Renew Date: 11/03/1995
Federal Id No: Not reported
COI Date: / /

MOSF:
Name: BCF OIL REFINING, INC
Address: 360 MASPETH AVENUE
City,State,Zip: BROOKLYN, NY 11211
Facility ID: 2-2600
Program Type: MOSF
Tank Status: Inactive
Expiration Date: Not reported
Dec Region: 2
UTMX: 590372.16955
UTMY: 4508045.77666

MOSF AST:
MOSF Number: 2-2600
SWIS Code: 61
Facility Town: Not reported
Facility Phone: (718) 387-9710
Emergency Contact Name: SALVATORE CORTESE
Emergency Contact Phone: (718) 387-9710
Total Tanks: 19
Total Capacity: 780574
Daily Throughput: 20000
License Status: 3
Facility Type: APARTMENT BUILDING
Product Transfer Operation: Tank Truck
Facility Status: TEMPORARILY OUT-OF-SERVICE
Operator Name: SALVATORE CORTESE
Owner Name: BCF OIL REFINING, INC
Owner Address: 360 MASPETH AVENUE
Owner City,St,Zip: BROOKLYN, NY 11211-
Owner Phone: (718) 387-9710
Owner Type: Corporate/Commercial
Owner Status: 1
Owner Mark: First Owner
Mailing Name: BCF OIL REFINING, INC
Mailing Address: 360 MASPETH AVENUE
Mailing Address 2: Not reported
Mailing City,St,Zip: BROOKLYN, NY 11211-
Mailing Contact: SALVATORE CORTESE
Mailing Phone: (718) 387-9710
Legal Agent Name: GILBERT WALLACH, ESQ.
Legal Agent Address: 50 BROADWAY-25 FLOOR
Legal Agent City,St,Zip: NEW YORK, NY 10004-
LIC Expires: / /

Tank ID: 11
Tank Location: ABOVEGROUND
Install Date: 04/33
Product: NOS 5 OR 6 FUEL OIL
Tank Type: Steel/carbon steel
Tank Internal: None

BCF OIL REFINING, INC (Continued) **1001754932**

Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Wrapped (Piping
Secondary Containment:	Concrete Dike
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	05/93
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	110000
Lat/Long:	40|43|40 / 73|54|52
Federal ID:	Not reported
Inspected Date:	07/09/1999
Inspector:	AS
Renew Date:	11/03/1995
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	In Service
COI Date:	/ /
Date License Issued:	/ /
Date License Application Received:	02/09/1995
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-036609
Date Legal Agent Filed with Secretary of State:	00/86

Tank ID:	12
Tank Location:	ABOVEGROUND
Install Date:	04/33
Product:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Wrapped (Piping
Secondary Containment:	Concrete Dike
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	05/93
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	110000
Lat/Long:	40|43|40 / 73|54|52
Federal ID:	Not reported
Inspected Date:	07/09/1999
Inspector:	AS
Renew Date:	11/03/1995
Inspected State:	Not reported
Pipe Flag:	True

BCF OIL REFINING, INC (Continued) **1001754932**

Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	In Service
COI Date:	/ /
Date License Issued:	/ /
Date License Application Received:	02/09/1995
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-036609
Date Legal Agent Filed with Secretary of State:	00/86

Tank ID:	14
Tank Location:	ABOVEGROUND
Install Date:	04/33
Product:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Wrapped (Piping
Secondary Containment:	Concrete Dike
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	05/93
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	110000
Lat/Long:	40|43|40 / 73|54|52
Federal ID:	Not reported
Inspected Date:	07/09/1999
Inspector:	AS
Renew Date:	11/03/1995
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	In Service
COI Date:	/ /
Date License Issued:	/ /
Date License Application Received:	02/09/1995
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-036609
Date Legal Agent Filed with Secretary of State:	00/86

Tank ID:	17
Tank Location:	ABOVEGROUND
Install Date:	04/51
Product:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron

BCF OIL REFINING, INC (Continued) **1001754932**

Pipe Internal:	None
Pipe External:	None
Secondary Containment:	Concrete Dike
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	06/94
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	110000
Lat/Long:	40|43|40 / 73|54|52
Federal ID:	Not reported
Inspected Date:	07/09/1999
Inspector:	AS
Renew Date:	11/03/1995
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	In Service
COI Date:	/ /
Date License Issued:	/ /
Date License Application Received:	02/09/1995
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-036609
Date Legal Agent Filed with Secretary of State:	00/86

Tank ID:	20
Tank Location:	ABOVEGROUND
Install Date:	04/82
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	None
Secondary Containment:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	24
Lat/Long:	40|43|40 / 73|54|52
Federal ID:	Not reported
Inspected Date:	07/09/1999
Inspector:	AS
Renew Date:	11/03/1995
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	In Service

BCF OIL REFINING, INC (Continued) **1001754932**

COI Date: / /
Date License Issued: / /
Date License Application Received: 02/09/1995
Chemical Bulk Storage Number: Not reported
Pollution Discharge Elimination System Num: 0-036609
Date Legal Agent Filed with Secretary of State: 00/86

SPILLS:
Name: BCF OIL
Address: 360 MASPETH AVENUE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 9700680 / 1997-04-16
Facility ID: 9700680
Facility Type: ER
DER Facility ID: 74202
Site ID: 211457
DEC Region: 2
Spill Cause: Equipment Failure
Spill Class: A1
SWIS: 2401
Spill Date: 1997-04-15
Investigator: SIGONA
Referred To: Not reported
Reported to Dept: 1997-04-15
CID: 369
Water Affected: ENGLISH KILLS
Spill Source: Major Facility (MOSF) > 400,000 gal
Spill Notifier: Federal Government
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1997-04-15
Spill Record Last Update: 2003-09-02
Spiller Name: SAL CORTESE
Spiller Company: BCF OIL FACILITY
Spiller Address: 360 MASPETH AVENUE
Spiller Company: 001
Contact Name: SAL CORTESE
DEC Memo: ""
Remarks: "USCG received notice from DEC Hussein- Report of a continuous discharge to Waterbody."

All Materials:
Site ID: 211457
Operable Unit ID: 1046964
Operable Unit: 01
Material ID: 337272
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00

BCF OIL REFINING, INC (Continued) **1001754932**

Oxygenate: Not reported

Name: BCF OIL REFINING INC
Address: 360 MASPETH AVENUE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 8910891 / 1990-02-16
Facility ID: 8910891
Facility Type: ER
DER Facility ID: 74202
Site ID: 211455
DEC Region: 2
Spill Cause: Equipment Failure
Spill Class: A1
SWIS: 2401
Spill Date: 1990-02-14
Investigator: MCTIBBE
Referred To: Not reported
Reported to Dept: 1990-02-14
CID: Not reported
Water Affected: ENGLISH KILLS
Spill Source: Major Facility (MOSF) > 400,000 gal
Spill Notifier: Federal Government
Cleanup Ceased: 1990-02-16
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1990-02-28
Spill Record Last Update: 2003-09-02
Spiller Name: SAL CORTESE
Spiller Company: BCF OIL INC.
Spiller Address: 360 MASPETH AVE
Spiller Company: 001
Contact Name: SAL CORTESE
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE DEC referred this site cleanup to USEPA for RCRA Cleanup action. This spill site cleanup has been consolidated under Spill No. 9406807. "
Remarks: "USCG ON SCENE-BCF TO DO CLEAN UP"

All Materials:
Site ID: 211455
Operable Unit ID: 937875
Operable Unit: 01
Material ID: 440442
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: BCF OIL

BCF OIL REFINING, INC (Continued) **1001754932**

Address:	360 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9700679 / 2003-09-02
Facility ID:	9700679
Facility Type:	ER
DER Facility ID:	74202
Site ID:	286994
DEC Region:	2
Spill Cause:	Housekeeping
Spill Class:	A1
SWIS:	2401
Spill Date:	1997-04-15
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1997-04-15
CID:	211
Water Affected:	ENGLISH KILLS
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-04-15
Spill Record Last Update:	2003-09-02
Spiller Name:	SAL CORTESE
Spiller Company:	BCF OIL
Spiller Address:	360 MASPETH AV
Spiller Company:	001
Contact Name:	SAL CORTESE
DEC Memo:	""
Remarks:	"Company is cleaning tanks for inspection and discharge pipes are leaking water and PCB oil mixture - Pipe 1 discharging at 1 GPM & Pipe 2 discharging at 5 GPM the discharge is to English Kills"

All Materials:

Site ID:	286994
Operable Unit ID:	1046962
Operable Unit:	01
Material ID:	337271
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	286994
Operable Unit ID:	1046962
Operable Unit:	01
Material ID:	337270
Material Code:	0017A
Material Name:	PCB oil
Case No.:	Not reported

BCF OIL REFINING, INC (Continued) **1001754932**

Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	BCF OIL REFINING INC.
Address:	360 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9403829 / 2003-09-02
Facility ID:	9403829
Facility Type:	ER
DER Facility ID:	74202
Site ID:	80011
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	A1
SWIS:	2401
Spill Date:	1994-06-17
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1994-06-17
CID:	Not reported
Water Affected:	ENGLISH KILLS
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Federal Government
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1994-09-26
Spill Record Last Update:	2004-06-07
Spiller Name:	Not reported
Spiller Company:	BCF OIL REFINING, INC.
Spiller Address:	360 MASPETH AVENUE
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"USCG NIOTIFIED DEC OF OIL CONTAMINATION AT SPDES OUTFALL, AND ALONG THE SHORELINE OF THE ENGLISH KILLS. USCG REQUESTED BOOMING. DEC INVESTIGATED WITH DEP. DEC SIGONA HIRED MILRO TO CLEANOUT OWS."

All Materials:

Site ID:	80011
Operable Unit ID:	1000808
Operable Unit:	01
Material ID:	383992
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

BCF OIL REFINING, INC (Continued) **1001754932**

Name:	BCF OIL REFINING INC
Address:	360 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	8701849 / 1987-06-10
Facility ID:	8701849
Facility Type:	ER
DER Facility ID:	74202
Site ID:	80009
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	A1
SWIS:	2401
Spill Date:	1987-06-04
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1987-06-04
CID:	Not reported
Water Affected:	FLUSHING BAY
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Federal Government
Cleanup Ceased:	1987-06-10
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1987-06-05
Spill Record Last Update:	2003-09-19
Spiller Name:	SAL CORTESE
Spiller Company:	BCF OIL
Spiller Address:	360 MASPETH AVENUE
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"MALFUNCTION IN THE OIL/WATER SEPARATOR. USCG ON THE SCENE."

All Materials:

Site ID:	80009
Operable Unit ID:	906265
Operable Unit:	01
Material ID:	471741
Material Code:	1721A
Material Name:	spdes discharge
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	80009
Operable Unit ID:	906265
Operable Unit:	01
Material ID:	471740
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum

BCF OIL REFINING, INC (Continued) **1001754932**

Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	BCF OIL REFINERY, INC
Address:	360 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9406807 / 2014-10-29
Facility ID:	9406807
Facility Type:	ER
DER Facility ID:	74202
Site ID:	80012
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	A1
SWIS:	2401
Spill Date:	1994-08-19
Investigator:	AXDORONO
Referred To:	Not reported
Reported to Dept:	1994-08-19
CID:	Not reported
Water Affected:	ENGLISH KILL
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1994-10-20
Spill Record Last Update:	2014-10-29
Spiller Name:	Not reported
Spiller Company:	BCF OIL REFINERY, INC
Spiller Address:	360 MASPETH AVENUE
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE 04/25/95: SEE SPILL #9403829. DEC (Sigona) issued a hazardous waste cleanup contractor on 3/27/2000 under H0413. DEC referred this site cleanup to USEPA for RCRA Cleanup action. This spill site cleanup has been consolidated under Spill No. 9406807. 4/21/04 - Spill manager's name switched to Tipple from Sigona. 8/23/04 - Raphael Ketani. Case transferred to Jeff Vought. 7/3/12 - Austin - A synopsis to date of the basic activities on this site: Region 2 Spills staff did a PIN project on this site in the 1990s when it was abandoned by the owner, who found PCBS in his stored waste oil tanks. We re-diverted the storm drainage away from the storage tanks to prevent an overflow condition, and secured the site. The EPA then came in, and did a Superfund emergency removal of the hot oil from the tanks. They gave it back to DEC for a NYS Superfund investigation. After Jim Quinn's section did their Superfund investigation of the site, they found there were no hazardous wastes (PCBs) in the ground/groundwater. The original oil spill report, #9406807 (the one of this record), was closed in the interim by Kevin

BCF OIL REFINING, INC (Continued) **1001754932**

Hale, since it was in the State Superfund program. There is still petroleum g.w. contamination from the waste oil operations, so we need to re-open this spill report (#9406807), and assign it to one of our Remediation staff in Region 2 to continue the investigation, presumably under a PIN project. I have done so, by transferring this spill to Vadim Brevedo's section (Remediation Section B , as per the Regional Remediation Engineer. DEC Brevdo will assign this site to a project manager in his section for review and determination of further action. - end 02/12/2013: This spill case was transferred to A. Doronova. - AD Looked for property information on PropertyShark and NYC ACRIS database. According to the results: this property was sold by City of NY in 2006 to Newtown Development LLC. The property was bought at foreclosure. The Newtown Development company was represented by an attorney - Seth Friedland of Friedland Laifer & Robbins, LLP. Address of attorney: 62 William Street, 3rd Floor New York, NY 10005 Phone: 212-344-1400 Called and left a message to Mr. Friedland on his voicemail. Did not find on the Internet any other contact info for Newtown Development LLC. There is no listing for Newtown Development LLC on Department of State's Division of Corporations database. There is a company with a similar name - Newtown Development Group LLC. The company address is: Newtown Development Group LLC 2208 Astoria Blvd. Astoria, NY Phone: (718)545-1850 Called on the listed phone and left a message. Later in the day called and left a message with a secretary of Mr. Friedland. She told me that Newtown Development LLC is still their client. 1:12 PM - Received a call from Mr. Friedland. He told me that the site was cleaned by DEC and they had some kind of agreement with the state that the site will be remediated before purchasing it in 2006. Asked him to submit this agreement and also asked him for RP contact information. He said that he will speak with his client and get back to us in a day. AD 02/13/2013: Received a message from Mr. Friedland. Called and spoke with him. Mr. Friedland was authorized by the property owner to represent him in this case. CEUS Env. will probably be a consultant for the site. Mr. Friedland will confirm it later. He gave the address and contact info of the owner of the site: Marcello Porcelli - president Newtown Development, LLC c/o Fabrizio Realty 364 Maspeth Ave, Brooklyn, NY phone: (718) 782-4200 Mr. Friedland asked for next course of actions required by DEC. Told him that after I review the case file I will issue a letter to his client with a request for further actions depending on soil and groundwater data. Told him to file FOIL request in a meantime to get site-related data. Mr. Friedland will e-mail me a copy of the comfort letter his client received from DEC. Put site priority as P0. AD 02/25/2013: Reviewed the 2009 Investigation Report. The highest concentration of TVOCs is in shoreline sample point PW-1 at 1200 ppb detected in October 2007. Called and left a message to Mr. Friedland. AD 02/26/2013: Called and spoke with Mr. Friedland regarding the site reconnaissance. Requested to inspect all site-related wells and to collect groundwater samples, then based on the result to propose next course of actions. Later in the day received the following e-mail from Mr. Fridland: Dear Ms. Doronova: As just discussed, you advised me that you reviewed the latest available sampling data in NYSDEC's records for this site which are from 2009. Because of the age of those results, you have requested that more current sampling results from the above site be obtained and submitted. You also indicated that the readings in the files were relatively modest with one of the highest reading in the range of 1,300 parts. In this regard, you have requested that our

BCF OIL REFINING, INC (Continued) **1001754932**

client's consultant do the following: " Inspect the wells for sampling ability and determine the status of the wells (you said you thought there were 17 wells on the site); " Sample groundwater from the wells for VOC's and SVOC's which would relate to fuel oil and PCB's; " Upon the consultant's review and analysis of the sampling results, you would like the consultant to submit a Site Sampling Status Report documenting the sampling results. " In the Site Sampling Status Report, depending on the sampling results, you would also like the consultant to recommend a course of action ranging from a request for spill closure, to continued monitoring and natural attenuation, or another method of remediation that will lead to closure, as recommended by our consultant. Please review my summary above and kindly either confirm my understanding above, or add any other language modifications to this email that you feel are appropriate. Once I receive your response hereto, I will arrange for authority for the consultant to perform the required tasks. Thanks again for your cooperation and assistance. Regards. Sent from my BlackBerry Seth D. Friedland Friedland Laifer & Robbins, LLP 62 William Street New York, New York 10005 T 212.344.1400 x. 202 F 212.344.8735 C 917.902.6386 Efax 646.304.1916 email: sfriedland@friedlandlaifer Sent an e-mail to Mr. Friedland confirming the course of actions. AD 03/06/2013: Received the following e-mail from Mr. Friedland: Dear Ms. Doronova, Our client's consultants went to the site to inspect the wells as you requested. They were able to locate and identify approximately 7 or 8 wells so far. Also, the BCF site has been used as an impound lot by New York City for the parking of cars for the last year or so, so it may have been difficult for the consultants to locate some of the wells because of the presence of parked cars. Can you send me a copy of the well map you had reviewed so the consultants can try to reconcile the current site conditions with the site plan in your files. Thanks very much. Sent from my BlackBerry Seth D. Friedland Friedland Laifer & Robbins, LLP Sent the requested site plans. AD 06/03/2013: Sent an e-mail to Mr. Frieland with a request for site status update info. Requested to submit a summary report by end of June. Later in the day received the following e-mail from Mr. Frieland: Ms. Doronova, I know they are working on trying to finalize the report, but the consultants have a couple of questions. Would it be possible to discuss the report questions before they finalize and submit it in order to expedite the process? I can arrange a telephone call with them at a mutually convenient time if ok with you. Thanks for your patience. Seth D. Friedland Gave him time when I am avalable to take conference call. AD 06/04/2013: Finalized time for the conference call for 1:30 PM for June 6, 2013. AD 06/06/2013: received an e-mail from Mr. Friedland with some site maps from the new report. Had a conference call with Mr. Friedland and his consultant. Discussed the new groundwater data and issues with report presentation. The complete report will be submitted to DEC as scheduled by June 30, 2013. AD 06/28/2013: Received the following e-mail from John Rhodes of CEUS Engineering: Ms. Doronova, Attached is the Site Sampling Report and Petition for Closure of NYSDEC Spill Number 9406807 for the former BCF Site. I am also sending this report to you next week in hard copy with a CD containing the report. Please confirm receipt. Thank you for your assistance on this project, John A. Rhodes, P.E., F.NSPE CEUS Engineering, P.C. NJ: 5 Bedford Place, Morristown, 07960 NY: 62 William Street, 3rd Floor, New York, 10005 646 465 2494 DL the report to eDocs. Will review. AD 08/09/2013: Reviewed the report. It states

BCF OIL REFINING, INC (Continued) **1001754932**

that the Site was an Inactive Hazardous Waste Site investigated and cleaned-up through a cooperative arrangement between the NYSDEC, New York City (NYC), the United States Environmental Protection Agency (EPA) and a purchaser of the property, Newtown Development, LLC (NDL) to convert an abandoned hazardous waste site back to a beneficial use. According to the report, as part of the cooperative arrangement, the following have been accomplished: - The NYSDEC responded to discharges of petroleum from the former BCF facility, closed an oil water separator, cleaned up surface debris, supervised and funded a Demonstration of Method Applicability Study (DMA) and a Remedial Investigation (RI), led the Traid team during the RI, partnered with NDL to allow the innocent landowner purchase of the Site, and provided the successful regulatory framework and oversight for the project that led to the current status. - The EPA transferred their CERCLA oversight role to the NYSDEC, subordinated a lien against the property so that NDL could move forward to purchase the property and the remediation move forward, provided the expertise for the Triad approach including participation on the Triad team, provided the regulatory framework and oversight for the decontamination of the steel that otherwise would have been TOSCA waste, and performed an emergency removal action that included cleaning and closure of numerous tanks containing PCB laden oils. - The NYSDEC along with EPA, NYC and NDL led the development of the cooperative arrangement as part of the City s and State s interest in economic development and repatriation of contaminated and abandoned property, coordinated local regulatory and other support for the project, participated on the Triad team and promoted the successful approach to cleaning-up the Site to others addressing contaminated properties in NYC. - NDL (along with NYSDEC and NYC) led the conceptual development of the cooperative arrangement, purchased and funded the property allowing the entire enterprise to move forward, demolished the above ground structures, decontaminated and recycled the steel from tanks and piping; identified, leased to and interfaced with an industrial operation on the property (the impound lot operations for NYC s Marshal s operations), covered and leveled the ground with inch quarry stone, and managed the property to allow all other parties (EPA, NYSDEC, Triad team) to do what they needed to do. NDL is now addressing the residual petroleum (fuel oil) contamination issue brought to NDL s attention by NYSDEC as a continuing obligation to which they agreed as part of the cooperative arrangement and in continued cooperation with the NYSDEC, now through the Region 2 office. 2013 GW sampling: The report states that in February and March of 2013 contractors for NDL conducted groundwater sampling and testing and related activities in accordance with the plan approved by the Region 2 office. The 2013 follow?up groundwater elevation measurements and testing confirmed the southerly flow direction of groundwater from the southern portion of the Site. Additionally, through an examination of the construction of the retaining wall and elevations of the underlying clay layer we confirmed that the retaining wall was keyed into the clay and thereby inhibiting direct impacts on the English Kill from the petroleum release on the Site. The monitoring wells in the southern portion of the Site are representative of downgradient groundwater conditions to the north of the Site. GW data - SVOCs in GW: Naphthalene was not above this groundwater standard in the 2013 follow up testing.The consultant recommends no further action regarding the SVOC contaminants detected at the Site. BTEX: The NYSDEC noted BTEX compounds (benzene, toluene,

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ethylbenzene and xylene) in most of the wells on the properly exceeding their respective Class GA Groundwater standard. The concentrations of BTEX compounds in the 2013 testing were consistent with the concentrations in the RI testing (2009), with improvement but also localized increases in concentrations. The average values of toluene, ethylbenzene and xylene all dropped between the 2009 RI testing and the 2013 testing. In 2009 the average or the total of these three compounds was 7.7 ug/l. By 2013, this average had dropped to 1.9 ug/l. However, the average benzene value increased slightly, from 34.6 ug/l at the time of the RI to 67.5 ug/l in 2013. This is likely due to the small amount of LNAPL that was encountered in MW-12 (0.04 inches) thereby biasing high the average value; and our decision to sample groundwater in MW-12 after removal of this LNAPL even though wells with LNAPL were not sampled during the RI. A longer period of record for MW-7, a downgradient well for contaminants from the northern portion of the BCF Site. Total BTEX and benzene concentrations have dropped over the past five years until they are now nearly within Class GA Groundwater standards. A similar record is indicated for the other wells monitoring the BCF Site. however, the BTEX compounds are not migrating. The furthest downgradient well to the south towards the English Kills, MW-16, contained no BTEX compounds (or any other compounds) exceeding Class GA Groundwater Standards. Further, the retaining wall extends around the entire southern portion of the Site, thereby inhibiting flow into the English Kills. Similarly, the furthest downgradient well to the northeast along the Maspeth Avenue utility beddings, MW-7, contained only benzene at 1.1 ug/l, only slightly above its Class GA Groundwater Standard of 1.0 ug/l. (Isopropylbenzene was also detected at 20 ug/l, above its Class GA Groundwater Standard of 5 ug/l.) Therefore, according to the consultant, the VOC constituents of fuel oil are not migrating beyond the property in significant concentrations. GW data comparison (TVOCs in ppb): well 2009 2013 MW-6 193 23 MW-7 17 24 MW-8 349 99 MW-9 47 89 MW-10 19 6.7 MW-12 366 654 MW-13 25 175 MW-14 88 64 MW-15 101 121 MW-16 55 6 MW-17 277 187 Six wells: MW-6, MW-8, MW-10, MW-14, MW-16 and MW-17 showed decrease in TVOCs levels. Five wells: MW-7, MW-9, MW-12, MW-13 and MW-15 indicated increase in TVOCs. The most contaminated well is MW-12 with 654ppb of TVOCs. Free product in 2013: The 2013 testing confirmed LNAPL at two locations (wells MW-12 and MW-15), in lower amounts than identified during the RI. The area where LNAPL had been suspected but not confirmed by the RI contained no LNAPL in 2013. The RI mobility/recoverability testing was repeated. The LNAPL observed in 2013 was confirmed to be essentially immobile and practicably non-recoverable. The consultant recommends no further action regarding the remaining LNAPL at the site. Exposure assesment: The area of the BCF Site has a long industrial history, much of it as an oil terminal stemming back to 1933. The surrounding area has been industrial including land uses such as the National Grid Greenpoint Energy Facility (Keyspan), major pipelines, scrap metal recycling and oil terminals. Today the Site is an impound lot for the City of New York. The New York City Planning Department s objectives are to keep the area industrial. Groundwater at and in the vicinity of the Site is not potable and not used for any purpose including industrial. Groundwater is sufficiently deep that exposure to users of the industrial property is unlikely, although basic controls during construction would be appropriate. Furthermore, the remaining groundwater contamination is not migrating off the property in

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significant amounts. Therefore, there is no potential for exposure to contaminated groundwater other than when deep excavation is done during redevelopment construction or for utility repairs in the immediate vicinity of the Site. The only environmental receptor is the English Kills adjoining the southern portion of the Site. The English Kills is an industrial waterway with barge and other industrial and commercial traffic. A major outfall of the NYC sewer system is located just upstream of the BCF Site. The RIR indicates that contaminants in the sediment in the English Kills come from upgradient sources and not the BCF Site. The Site groundwater evaluation shows minimal if any impact to the English Kills from the Site. Therefore, there is no significant threat to any environmental receptors from the Site. There are no residential or other sensitive use properties in the vicinity and the entire stretch of Maspeth avenue where the Site is located is exclusively heavy industrial and commercial. Soil vapor intrusion is not a current concern due to the lack of structures. Should future structures be desired on this industrial property, soil vapor intrusion can be better addressed at that time, if necessary. The remaining contamination poses no threat to the current and likely future users of the property. None of the targeted contaminants are present in the upper two feet of soil. Currently, any contaminated soil is well separated from current users by the three-quarter inch gravel placed on the ground surface after the demolition of the aboveground facilities as required by the NYSDEC. A Sensitive Receptor Survey was done in conjunction with the 2013 testing. The Sensitive Receptor survey concluded that there was no threat to human health or the environment. The 2013 testing reported here shows the groundwater plume to be stable and consistent with what was found during the RI. Conditions are improving with time. Contaminants associated with fuel oil are not migrating off-site. Furthermore, the BCF Site is capped with gravel and mine millings and currently supporting an industrial operation; it will continue to support an industrial operation based on NYC plans and the Site s location. There is no impact to the English Kills indicated by the 2009 or 2013 testing. With the stable plume, low and improving concentrations of contaminants, lack of significant off-site migration, and a cap protecting an industrial operation; the Site conditions are fully protective of public health and the environment at this industrial property. Therefore, the consultant petitions for closure of NYSDEC Spill Number 9406807. GW data is limited to only two sampling rounds. The lates data indicated increase in Benzene levels. Free product on two wells. Will discuss the closure request with J. Kolleeny. 08/29/2013: Discussed the closure request with J. Kolleeny of DEC. It was decided that although VOC concentrations in some site wells have decreased since the last groundwater sampling event, performed at the site in 2009, the submitted data indicate that free product is present in two site wells, total VOC concentrations increased in five site wells, and benzene levels increased in seven wells. In light of these conditions, further actions are warranted at the site. AD 09/04/2013: Issued and sent a DEC Response letter to Mr. Porcelli stating that spill case closure cannot be approved at this time and that free product recovery and groundwater monitoring and sampling of site wells should continue in order to eliminate free product to the extent feasible and establish a clear decreasing trend of groundwater contaminant levels. DL pdf copy of the leter to eDocs. AD 09/18/2013: Received a phone call from John A. Rhodes of CEUS Engineering. He

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wanted to discuss free product recovery and GW sampling for the site. Told him to measure LNAPL thickness before bailing it out and suggested to install oil absorbent socks into the wells with free product, if it recharges at very slow rate. Permitted the omission of wells MW-7, MW-05, MW-10 and MW-16 from the sampling program. Also required to sample the rest of the site wells only for VOCs. AD 10/03/2013: Received the following e-mail from J. Rhodes: Ainura, We are going to sample the wells at BCF on Monday, October 7. To re-iterate the plan: We ll be sampling wells MW-8, 9, 12, 13, 14, 15 and 17. We ll test for VOCs (no SVOCS or PCBs), and for petroleum compounds (STARS list compounds). We ll gage the wells for product and evaluate increases or decreases, bale the wells as appropriate, and use absorbent socks after baling the wells. We ll report the results to you shortly after receiving the laboratory analytical reports. I also want to tell you that we collected a few samples from the BCF wells last month to get a preliminary idea of what trends were like. We will include the results from these samples in our next report. Let me know if there are any problems with the above. Thanks, John Rhodes, P.E. AD 12/26/2013: Received the following e-mail from J. Rhodes: Ainura, Attached is the BCF Groundwater Sampling Report. I am also sending you the report in hard copy with a CD. Please confirm receipt. Thanks, Ainura, John John A. Rhodes, P.E. CEUS Engineering, P.C. NJ: 5 Bedford Place, Morristown, NJ 07960 NY: 62 William Street, New York, NY 10005 646 465 2494 JRhodes@CEUSEngineeringPC.com JARhodes1@Verizon.net DL the report to eDocs. Will review. AD 01/10/2014: Reviewed the report. It states that additional groundwater sampling and testing requested by the NYSDEC in September 2013 was conducted in September and up to November 4, 2013. The additional work included sampling and testing of seven wells for specific constituents of petroleum, a trend analysis of groundwater concentrations, and limited remediation comprised of the application of absorbent socks in wells that contained or recently contained LNAPL. Additionally, NDL added a round of groundwater sampling and testing in an effort to better understand contaminant trends. Performed site activities include: - Sample wells MW-8, 9, 12, 13, 14, 15, and 17, - Analyze samples for petroleum VOCs (EPA Method 8260 STARS, no SVOCS or PCBs), - Gauge wells for product to evaluate increases or decreases, and, - Conduct a limited remediation by applying petroleum absorbent socks. Monitoring wells were gauged on September 16, October 8, and November 1, 2013. This gauging confirmed the prior gauging on 2/28/2013, 3/28/2013 and 4/22/2013, as well as the prior readings made during the RI and by Rust in 1998. The groundwater flow in the northern portion of the Site to the north was confirmed. Groundwater from the southern portion of the Site flows south toward the English Kills; this was also confirmed by recent measurements. The presence of the retaining wall at the south end of the Site affects local groundwater flow. This retaining wall is tied into the native clay unit thereby minimizing direct impacts of contaminated groundwater, if any, to the English Kills. MW-16 is a key downgradient well to the south of the BCF source areas. Absorbent socks were employed in wells MW-12, and prophylactically in MW-14 where product was observed during one gauging event, and in MW-15 where a suspended organic sediment was suspected. Due to the one inch diameter of piezometer PZ K-11, a peristaltic pump was used to remove product if encountered in the well. Upon the discovery of product in what is believed to be well MW-2, absorbent socks were applied at that location as well. GW data comparison (TVOCs in ppb): well 2009

BCF OIL REFINING, INC (Continued) **1001754932**

03/2013 10/2013 MW-6 193 23 NS MW-7 17 24 NS MW-8 349 99 ND MW-9 47 89 88 MW-10 19 6.7 NS MW-12 366 654 448 MW-13 25 175 191 MW-14 88 64 65 MW-15 101 121 129 MW-16 55 6 NS MW-17 277 187 ND Three wells: MW-8, MW-12 and MW-17 showed decrease in TVOCs levels. Three wells: MW-9, MW-15 and MW-14 indicated same levels of TVOC for both sampling events. Well MW-13 showed a slight increase in TVOCs. The most contaminated well is MW-12 with 448ppb of TVOCs. Conclusions: According to the consultant, the Exposure Assessment and Sensitive Receptor survey concluded that there was no threat to human health or the environment from the BCF Site. The current and likely future use of the Site and surrounding area is industrial. No threat to the industrial use of the property and surrounding area is presented by the current Site conditions. LNAPL, if any remains, is not a threat to the public or the environment, and practicably unrecoverable. During 2013, LNAPL was intermittently encountered only in small pockets. Through the use of absorbent socks, we have recovered approximately 1 gallon of oil in the latter half of 2013. Although CEUS will continue the application of absorbent socks for prophylactic reasons, further remedial activity will not be significantly effective and would yield diminished returns. Maintaining an open Spill Case will not affect this condition. The 2013 groundwater testing shows remaining contaminant concentrations in all wells to be following an exponential decay pattern similar to that observed in MW-7. The key downgradient well MW-17 decreased in contaminant concentrations over 2013 to the point where the most recent sampling and testing results (October 8) were below Class GA Groundwater Standards. Two other key downgradient wells, MW-16 and MW-7, have also reached the Class GA Groundwater Standards. MW-13, 14 and MW-15 are at lower concentrations and as a result their degradation patterns are not as pronounced. However, concentrations are not significantly increasing, if at all. After repeated groundwater samples and tests from these wells that show no significant contaminant concentrations, further sampling and testing would be of no value. There are currently no receptors for the contaminated groundwater remaining and unlikely to be any receptors in the future for this industrial Site. To the south, the discharge of groundwater to the English Kills is limited by a low permeability retaining wall keyed into the natural clay deposits as described in the RIR. Similarly, a significant contamination is not migrating to the north into the area of high industrial traffic along Maspeth Avenue. Based on the data. the consultant petitioning the NYSDEC for closure of the Spill Number 9406807 stating that there is no threat to the public or the environment from the BCF Site today, and none likely in the future. No remediation is necessary or practicable; further remedial activity will not be significantly effective and would yield diminished returns. No further value is served by additional sampling and testing of groundwater. While TVOCs are low in the site wells and the most contaminated well shows 448 ppb of TVOCs, there still is a free product in some of the site wells. Will diccuss the site with J. Kolleeny of DEC. AD 01/15/2014: Discussed the spill closure request with J. Kolleeny of DEC. The decision was that DEC cannot close the spill case at this time, due to reapearing free product in few site wells. GW sampling frequency could be reduced to a semi-annual basis and some wells could be removed from the sampling program (wells with ND levels of TVOCs). Wells with free product should be monitored on a continious basis to establish decreasing trends. AD 02/2014: Left a message to Mr. Rhodes. AD

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07/08/2014: Received a call from Mr. Friedland. Explained him that DEC requires to monitor free product at the site wells on a continious basis to establish decreasing trend. AD 10/22/2014: Received the following e-mail from Mr. Rhodes: Ainura, Attached is a report on the former BCF Facility, Spill No. 9406807. As you will see in the report, no oil remains at the site in the any of the locations where it was previously detected. As this was the DEC s last concern for this site, we are now renewing our request that this spill case be closed. You will note in the report that in June of this year we found MW-11, a well in which the DEC had observed oil during the RI. We were able to recover a small amount of oil from the well until July when no oil returned. Although we continue to employ absorbent socks to the well, no oil has returned to the well as of today. Throughout our monitoring in 2014, no oil was detected in any of the other areas of the site where it had been previously detected. Therefore, with the absence of oil in the MW-11 area, we conclude that the site is now practicably oil free. Please let me know if you have any questions. We look forward to your earliest response. John A. Rhodes, P.E., F.NSPE CEUS Engineering, P.C. NJ: 5 Bedford Place, Morristown, NJ 07960 NY: 62 William Street, New York, NY 10005 646 465 2494 JRhodes@CEUSEngineering.com JARhodes1@Verizon.net Will review. AD 10/28/2014: Reviewed the report. It states that free product monitoring was conducted at the site. LNAPL OBSERVATIONS AND REMEDIATION: After the departure of the impound lot operation in late September, SEUS located MW-11, the 2 well adjacent to the 1 diameter piezometer PZK?11. Since its discovery on June 2, 2014, MW-11 replaced PZK-11 for monitoring and product recovery actions. given its larger size, which makes it more representative of conditions in the area of concern. Product was recovered from MW-11 on the first day of discovery by peristaltic pump, and then by the use of absorption socks. No measurable amount of product has been detected in MW-11 since July 9, 2014. The product observations in calendar year 2014 for MW-11 and MW-2, indicated that these two wells accumulated sufficient oil to stain absorbent socks. No product was indicated in any other well during calendar year 2014. SEUS had applied absorbent socks to all wells in which product had been reported in the past, observed during the investigations or suspected of being present. For a time, small amounts of product absorbed onto the socks and the socks were periodically replaced. As of October 2014, no product is indicated to be absorbing onto any of the absorbent socks that continue to be deployed in all wells in which product had once been indicated or suspected. Conclusions and recommendations: No recoverable LNAPL has been encountered at the former BCF facility since June 2014. The consultant intend to continue the application of absorbent socks for prophylactic and ongoing monitoring reasons, but requests that this activity not hold up the closure of the Spill Case. The Exposure Assessment and Sensitive Receptor Survey presented in prior reports concluded that there is no threat to human health or the environment from the BCF Site. The current and likely future use of the Site and surrounding area is industrial or heavy commercial. No threat to the industrial or heavy commercial use of the property and surrounding area is presented by the current Site conditions. Will discuss the spill closure request with J. kolleeny of DEC. AD 10/29/2014: Discussed the spill closure recommendation with J. Kolleeny of DEC. Given the latest GW monitoring results it was decided to approve spill closure request. Issued and sent a letter to Marcello Porcelli of Newtown

BCF OIL REFINING, INC (Continued) **1001754932**

Development, LLC. Case closed. AD"

Remarks: "STORMWATER OVERFLOWING, OIL/WATER SEPARATOR SYSTEM WHICH FEEDS THROUGH OIL STORAGE AND TREATMENT SYSTEM. OIL STORAGE CONT./W PCBS. DEC HIRED CONT. TO INSTALL BY PASS TO ALLOW STORMWATER TO FLOW."

All Materials:

Site ID:	80012
Operable Unit ID:	1004223
Operable Unit:	01
Material ID:	379839
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPDES:

Name:	BCF OIL REFINING, INC
Address:	360 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Permit Number:	NY0036609
State-Region:	02
Expiration Date:	10/01/1997
Current Major Minor Status:	Minor
Primary Facility SIC Code:	5093
State Water Body Name:	NEWTOWN CK
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	0.001
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	40.719806 / -73.925056
DMR Cognizant Official:	SALVATORE CORTESE, PRESIDENT
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Permit Street Address:	BCF OIL REFINING, INC
Non-Gov Permit Supplemental Location:	360 MASPETH AVENUE
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Facility Street Address:	BCF OIL REFINING, INC
Non-Gov Facility Supplemental Location:	360 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
Region Permit Processed:	Not reported

BCF OIL REFINING, INC (Continued) **1001754932**

Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	BCF OIL REFINING, INC
Address:	360 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Permit Street Address:	BCF OIL REFINING, INC
Non-Gov Permit Supplemental Location:	360 MASPETH AVENUE
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Facility Street Address:	BCF OIL REFINING, INC
Non-Gov Facility Supplemental Location:	360 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	BCF OIL REFINING, INC
Address:	360 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Permit Street Address:	360 MASPETH AVENUE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Facility Street Address:	BCF OIL REFINING, INC
Non-Gov Facility Supplemental Location:	360 MASPETH AVENUE

BCF OIL REFINING, INC (Continued) **1001754932**

Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	BCF OIL REFINING, INC
Address:	360 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Permit Street Address:	360 MASPETH AVENUE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Facility Street Address:	BCF OIL REFINING, INC
Non-Gov Facility Supplemental Location:	360 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

AG205 **US ENVIRONMENTAL PROTECTION AGENCY** **SEMS** **1000272490**
NNW **C O BCF OIL REFINING SITE** **NY SHWS** **NYD068273044**
1/4-1/2 **BROOKLYN, NY 11211** **RCRA NonGen / NLR**
0.351 mi. **PRP**
1852 ft. **Site 6 of 7 in cluster AG** **ECHO**
NY MANIFEST

Relative:
Lower

Actual:
12 ft.

SEMS:

Site ID:	0204261
EPA ID:	NYD068273044
Name:	BCF OIL REFINING, INC.
Address:	360 MASPETH AVENUE
Address 2:	Not reported
City,State,Zip:	BROOKLYN, NY 11211
Cong District:	12

US ENVIRONMENTAL PROTECTION AGENCY (Continued) **1000272490**

FIPS Code: 36047
Latitude: Not reported
Longitude: Not reported
FF: N
NPL: Not on the NPL
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Detail:
Region: 02
Site ID: 0204261
EPA ID: NYD068273044
Site Name: BCF OIL REFINING, INC.
NPL: N
FF: N
OU: 00
Action Code: RV
Action Name: RMVL
SEQ: 2
Start Date: 2001-01-03 05:00:00
Finish Date: 10/26/2001 4:00:00 AM
Qual: S
Current Action Lead: EPA Perf

Region: 02
Site ID: 0204261
EPA ID: NYD068273044
Site Name: BCF OIL REFINING, INC.
NPL: N
FF: N
OU: 00
Action Code: RS
Action Name: RV ASSESS
SEQ: 1
Start Date: 2000-03-27 05:00:00
Finish Date: 3/29/2000 5:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 02
Site ID: 0204261
EPA ID: NYD068273044
Site Name: BCF OIL REFINING, INC.
NPL: N
FF: N
OU: 00
Action Code: AR
Action Name: ADMIN REC
SEQ: 1
Start Date: 2000-09-29 04:00:00
Finish Date: Not reported
Qual: V
Current Action Lead: EPA Perf

Region: 02
Site ID: 0204261
EPA ID: NYD068273044
Site Name: BCF OIL REFINING, INC.
NPL: N

US ENVIRONMENTAL PROTECTION AGENCY (Continued) **1000272490**

FF:	N
OU:	00
Action Code:	RV
Action Name:	RMVL
SEQ:	1
Start Date:	2000-05-25 04:00:00
Finish Date:	1/2/2001 5:00:00 AM
Qual:	S
Current Action Lead:	EPA Perf

SHWS:

Name:	B.C.F. OIL REFINING, INC.
Address:	360-362 MASPETH AVENUE, SOUTHSIDE
City,State,Zip:	BROOKLYN, NY 11211
Program:	HW
Site Code:	56747
Classification:	N
Region:	2
Acres:	1.900
HW Code:	224034
Record Add:	07/14/2004
Record Upd:	04/13/2011
Updated By:	JAQUINN
Site Description:	"The BCF Oil site is located within an urban, industrialized area of East Williamsburg, Brooklyn. Previously existing buildings and above ground storage tanks have been removed, and the property is being used as a Marshall's impound lot. A National Grid facility borders the site on the north, Newtown Creek on the south, a city automobile impound lot on the east and a scrap metal processing facility on the west. The total area is 1.9 acres, of which 0.3 acres is land under water. The property was used as a petroleum distribution facility for many years, starting in the early 1900?s. In 1980, the terminal was modified for use as a waste oil processing facility, and was used for waste oil recycling from 1980 to 1994. Routine sampling detected PCBs in the waste oil, and operations ceased in 1994. The property is zoned M3 (manufacturing/industrial), and it is currently used to store impounded automobiles. The site consists primarily of historic fill placed upon wetlands. Groundwater exists approximately 5 to 10 feet below grade and flows both to the north and south from the site. A remedial investigation of the site has been completed. The site was managed as a single operable unit. See also NYSDEC spill #9406807"
Env Problem:	"Based upon investigations conducted to date, the primary contaminant of concern at the site are those associated with petroleum. Separate phase petroleum contamination has been detected in numerous locations, although mobile product may be more limited. The site was extensively assessed for PCB contamination, but no significant levels of PCBs were detected on site. PCBs were detected in the Newtown Creek sediment, but the sediment contamination appears to be part of a larger problem and not related to releases from the site. A significant threat created by the potential for release of PCB-contaminated oil stored in dilapidated storage tank areas was eliminated by a removal action performed by the USEPA in 2000/2001."
Health Problem:	""
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported

US ENVIRONMENTAL PROTECTION AGENCY (Continued) **1000272490**

Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	1
Sub Type:	NNN
Owner Name:	C/O SETH D. FRIEDLAND, ESQ.
Owner Company:	NEWTON DEVELOPMENT LLC
Owner Address:	62 WILLIAM STREET
Owner Addr2:	THIRD FLOOR
Owner City,St,Zip:	NEW YORK, NY 10005
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	C01
Owner Name:	Gerald Esposito
Owner Company:	Brooklyn Community Board 1
Owner Address:	Brooklyn Community Board 1
Owner Addr2:	435 Graham Ave
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Shelly Paus
Owner Company:	Brooklyn Public Library, Leonard Branch
Owner Address:	Brooklyn Public Library, Leonard Branch
Owner Addr2:	81 Devoe St.
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

RCRA NonGen / NLR:

Date Form Received by Agency:	20070101	
Handler Name:	US ENVIRONMENTAL PROTECTION AGENCY	
Handler Address:	C O BCF OIL REFINING SITE	
Handler City,State,Zip:	BROOKLYN, NY 11211	
EPA ID:	NYD068273044	
Contact Name:	THOMAS P BUDROE	
Contact Address:	WOODBRIDGE AVE	360-3
Contact City,State,Zip:	EDISON, NJ 08837	
Contact Telephone:	732-906-6191	
Contact Fax:	Not reported	
Contact Email:	Not reported	
Contact Title:	Not reported	

US ENVIRONMENTAL PROTECTION AGENCY (Continued) **1000272490**

EPA Region:	02	
Land Type:	Not reported	
Federal Waste Generator Description:	Not a generator, verified	
Non-Notifier:	Not reported	
Biennial Report Cycle:	Not reported	
Accessibility:	Not reported	
Active Site Indicator:	Not reported	
State District Owner:	NY	
State District:	NYSDEC R2	
Mailing Address:	WOODBRIDGE AVE	360-3
Mailing City,State,Zip:	EDISON, NJ 08837	
Owner Name:	OWNERNAME	
Owner Type:	Private	
Operator Name:	OWNERNAME	
Operator Type:	Private	
Short-Term Generator Activity:	No	
Importer Activity:	No	
Mixed Waste Generator:	No	
Transporter Activity:	No	
Transfer Facility Activity:	No	
Recycler Activity with Storage:	No	
Small Quantity On-Site Burner Exemption:	No	
Smelting Melting and Refining Furnace Exemption:	No	
Underground Injection Control:	No	
Off-Site Waste Receipt:	No	
Universal Waste Indicator:	No	
Universal Waste Destination Facility:	No	
Federal Universal Waste:	No	
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported	
Active Site Converter Treatment storage and Disposal Facility:	Not reported	
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported	
Active Site State-Reg Handler:	---	
Federal Facility Indicator:	Not reported	
Hazardous Secondary Material Indicator:	NN	
Sub-Part K Indicator:	Not reported	
Commercial TSD Indicator:	No	
Treatment Storage and Disposal Type:	Not reported	
2018 GPRA Permit Baseline:	Not on the Baseline	
2018 GPRA Renewals Baseline:	Not on the Baseline	
Permit Renewals Workload Universe:	Not reported	
Permit Workload Universe:	Not reported	
Permit Progress Universe:	Not reported	
Post-Closure Workload Universe:	Not reported	
Closure Workload Universe:	Not reported	
202 GPRA Corrective Action Baseline:	No	
Corrective Action Workload Universe:	No	
Subject to Corrective Action Universe:	No	
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No	
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No	
TSDFs Only Subject to CA under Discretionary Auth Universe:	No	
Corrective Action Priority Ranking:	No NCAPS ranking	
Environmental Control Indicator:	No	
Institutional Control Indicator:	No	
Human Exposure Controls Indicator:	N/A	
Groundwater Controls Indicator:	N/A	
Operating TSDF Universe:	Not reported	
Full Enforcement Universe:	Not reported	

US ENVIRONMENTAL PROTECTION AGENCY (Continued) **1000272490**

Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D008
Waste Description: LEAD

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS

US ENVIRONMENTAL PROTECTION AGENCY (Continued) **1000272490**

CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: K049
Waste Description: SLOP OIL EMULSION SOLIDS FROM THE PETROLEUM REFINING INDUSTRY.

Waste Code: K051
Waste Description: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY.

Waste Code: K052
Waste Description: TANK BOTTOMS (LEADED) FROM THE PETROLEUM REFINING INDUSTRY.

Waste Code: X001
Waste Description: Not Defined

Waste Code: X003
Waste Description: Not Defined

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	OWNERNAME
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	OWNERNAME
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	OWNERNAME
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

US ENVIRONMENTAL PROTECTION AGENCY (Continued) **1000272490**

Historic Generators:

Receive Date:	20060101
Handler Name:	US ENVIRONMENTAL PROTECTION AGENCY
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101
Handler Name:	US ENVIRONMENTAL PROTECTION AGENCY
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19841114
Handler Name:	TANKS-A-LOT INC
Federal Waste Generator Description:	Not reported
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20020227
Handler Name:	US ENVIRONMENTAL PROTECTION AGENCY
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	92411
NAICS Description:	ADMINISTRATION OF AIR AND WATER RESOURCE AND SOLID WASTE MANAGEMENT

US ENVIRONMENTAL PROTECTION AGENCY (Continued) **1000272490**

PROGRAMS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

PRP:
PRP Name: BCF OIL REFINING INC
BCF OIL REFINING INC
BCF OIL REFINING INC
CARY FIELDS
CARY FIELDS
CARY FIELDS

ECHO:
Envid: 1000272490
Registry ID: 110001595854
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110001595854
Name: BCF OIL REFINING, INC.
Address: 360 MASPETH AVENUE
City,State,Zip: BROOKLYN, NY 11211

NY MANIFEST:
Name: TANKS A LOT INC
Address: C O BCF OIL REFINING SITE
City,State,Zip: BROOKLYN, NY 11211
Country: USA
EPA ID: NYD068273044
Facility Status: Not reported
Location Address 1: 360 MASPETH AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11211
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD068273044
Mailing Name: TANKS A LOT INC
Mailing Contact: MICHAEL CALLEIA
Mailing Address 1: 2890 WOODBRIDGE AVE
Mailing Address 2: Not reported
Mailing City: EDISON
Mailing State: NJ
Mailing Zip: 08837
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 7183879710

AG206 **BCF, 360 MASPETH AVENUE** **NY VCP** **S113922054**
NNW **360 MASPETH AVENUE, SOUTHSIDE** **N/A**
1/4-1/2 **BROOKLYN, NY 11211**
0.351 mi.
1852 ft. **Site 7 of 7 in cluster AG**

Relative: **Lower**

Actual: **12 ft.**

VCP:

Name:	BCF, 360 MASPETH AVENUE
Address:	360 MASPETH AVENUE, SOUTHSIDE
City,State,Zip:	BROOKLYN, NY 11211
Program Type:	VCP
Site Code:	56908
HW Code:	V00255
Site Class:	N
SWIS:	2401
Region:	2
Town:	New York City
Acres:	Not reported
Date Record Added:	11/30/2000
Date Record Updated:	03/31/2009
Updated By:	BRWOLOSE
Site Description:	"See project 224034"
Env Problem:	""
Health Problem:	""
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	1
Sub Type:	ZZZ
Owner Name:	Not reported
Owner Company:	B.C.F. OIL REFINING, INC.
Owner Address:	360 MASPETH AVE.
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11211
Owner Country:	United States of America
Own Op:	6
Sub Type:	ZZZ
Owner Name:	Not reported
Owner Company:	B.C.F. Oil Refining, Inc.- Registere
Owner Address:	360 MASPETH AVE.
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11211
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported

BCF, 360 MASPETH AVENUE (Continued) **S113922054**

Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

AK207 **COOPER TANK AND WELDING CORP** **NY SWF/LF** **S107783541**
NW **222 MASPETH AVENUE** **NY Financial Assurance** **N/A**
1/4-1/2 **BROOKLYN, NY 11211**
0.351 mi.
1854 ft. **Site 1 of 3 in cluster AK**

Relative:
Higher

Actual:
15 ft.

SWF/LF:

Name:	COOPER TANK AND WELDING CORP
Address:	222 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Flag:	ACTIVE
Region Code:	2
Phone Number:	7183847727
Owner Name:	Adrienne Cooper
Owner Type:	Private
Owner Address:	123 Varick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	Not reported
Owner Phone:	7184974431
Contact Name:	Ray Kvedaras
Contact Address:	123 Varick Avenue
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY 11237
Contact Email:	rkvedaras@coopertank.com
Contact Phone:	7183847727
Activity Desc:	C&D processing - permit
Activity Number:	[24W21]
Active:	Yes
East Coordinate:	590039
North Coordinate:	4507913
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Construction & Demolition Debris;Metals (Ferrous);Metals (Non-Ferrous);Plastics;Paper / Cardboard;Wood (Chips);Concrete
Authorization #:	2-6101-00061/00003
Authorization Date:	11/2/2018
Expiration Date:	10/28/2020
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

NY Financial Assurance 1:

Name:	COOPER TANK AND WELDING CORP
Address:	222 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Owner Name:	Adrienne Cooper
Region:	2
Estimate Type:	Closure Estimate
Estimate Amount:	355,000
Estimate Date:	03/01/2001
Mechanism:	Surety bond - Performance
Mechanism Amount:	355,000

COOPER TANK AND WELDING CORP (Continued) **S107783541**

Issue Date: 06/15/2006
Activity Number: 24W21
Activity Description: z Retired - C&D processing - permit

AE208 **ROLET FOOD PRODUCTS** **NY LTANKS** **S105230593**
SE **70 SCOTT AVE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.352 mi.
1859 ft. **Site 3 of 3 in cluster AE**

Relative: **Higher**
Actual: **18 ft.**

LTANKS:

Name:	ROLET FOOD PRODUCTS
Address:	70 SCOTT AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0109443 / 2002-01-14
Facility ID:	0109443
Site ID:	179351
Spill Date:	2001-12-26
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	JAKOLLEE
Referred To:	Not reported
Reported to Dept:	2001-12-26
CID:	198
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2001-12-26
Spill Record Last Update:	2002-01-14
Spiller Name:	MARK TURETSKY
Spiller Company:	ROLET FOOD PRODUCTS
Spiller Address:	70 SCOTT AVE
Spiller County:	001
Spiller Contact:	MARK TURETSKY
Spiller Phone:	(718) 497-0476
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	150523
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was KOLLEENY KOLLEENY OF DEC VISITED SITE. 275-GAL TANK IN ROOFTOP ENCLOSURE RUPTURED OVER X-MAS HOLIDAY, OWNER ESTIMATES ABOUT 75 GALLONS WAS LEFT IN TANK AND LEAKED OUT. OIL WENT THROUGH FLOOR OF ENCLOSURE AND INTO CRAWL SPACE ABOVE ROOF, CONTAMINATING ROOFING MATERIALS; A SMALL AMOUNT ALSO LEAKED THROUGH INTO WAREHOUSE BLDG BELOW. NO OIL WAS RELEASED INTO ENVIRONMENT. PETROLEUM TANK CLEANERS DID CLEANUP, WITH ABSORBENT ON CONCRETE/METAL SURFACES, AND REMOVAL/DISPOSAL OF IMPACTED ROOF TAR PAPER. NO RESIDUAL ODORS."
Remarks:	"TANK RUPTURED OF A 275 GAL TANK - THERE WAS UNK AMOUNT LEFT IN TANK PRODUCT THAT LEAKED WAS ABSORBED WITH SPEEDI-DRI."

All Materials:

ROLET FOOD PRODUCTS (Continued) **S105230593**

Site ID:	179351
Operable Unit ID:	846731
Operable Unit:	01
Material ID:	530649
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AJ209 **UNOCCUPIED WAREHOUSE** **NY LTANKS** **S105998052**
South **88 PORTER AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY 11237**
0.352 mi.
1860 ft. **Site 3 of 4 in cluster AJ**

Relative: **Higher**
Actual: **18 ft.**

LTANKS:

Name:	UNOCCUPIED WAREHOUSE
Address:	88 PORTER AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Spill Number/Closed Date:	0210928 / 2014-11-19
Facility ID:	0210928
Site ID:	209777
Spill Date:	2003-01-31
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	VXBREVDO
Referred To:	Not reported
Reported to Dept:	2003-01-31
CID:	390
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2003-01-31
Spill Record Last Update:	2014-11-19
Spiller Name:	ALLAN HOFFMAN
Spiller Company:	UNOCCUPIED WAREHOUSE
Spiller Address:	88 PORTER AV
Spiller County:	001
Spiller Contact:	ALLAN HOFFMAN
Spiller Phone:	(718) 381-3000
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	30119
DEC Memo:	"04/19/10 - LZ A TTF letter (eDocs) sent to Hymel Porter Realty. Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND 1/30/2003 - DO - To-Do letter sent. Tank is not

UNOCCUPIED WAREHOUSE (Continued) **S105998052**

registered. Owner has received Order on Consent recently. Contact Person: Allan Hoffman Mailing Address: 105 Harrison Place, Brooklyn, NY 11237. 6/20/05- Reassigned to Benjamin 3/2006 - file transferred to region 2. Need to determine status of consent order and investigation in response to to-do letter. 07/16/13 - Spill Case is transferred from Leszek Zielinski (PBS Unit) to V. Brevdo (Section B) as per DER Region 2 decision - Tank Test Failure Spill Case. VB 11/19/2014 - V. Brevdo No spillage, leak, product release occurred in this Tank Test Failure spill case. Tank has been closed in place on 05/21/2010. The location is in the paved industrial park. Exposure risk is unlikely. No known threat to the environment or human health. Spill case is closed effective 11/19/2014. No spill closure letter is issued. VB"

Remarks: "tank failed test - no spillage"

All TTF:

Facility ID:	0210928
Spill Number:	0210928
Spill Tank Test:	1527994
Site ID:	209777
Tank Number:	1
Tank Size:	5000
Material:	0002
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	209777
Operable Unit ID:	864182
Operable Unit:	01
Material ID:	514297
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AK210
NW
1/4-1/2
0.353 mi.
1864 ft.

EQUITY WORKS
MASPETH AND VANDERVORT AVES.
BROOKLYN, NY 11211

Site 2 of 3 in cluster AK

Relative:
Higher

Actual:
15 ft.

EDR MGP **1008407885**
N/A

Manufactured Gas Plants:
No additional information available

AK211
NW
1/4-1/2
0.359 mi.
1895 ft.

FONTANA TRANSFER STATION
252 MASPETH AVENUE
BROOKLYN, NY 11211

Site 3 of 3 in cluster AK

Relative:
Lower

Actual:
13 ft.

NY SWF/LF **S105841907**
N/A

SWF/LF:

Name:	FONTANA TRANSFER STATION
Address:	252 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Flag:	INACTIVE
Region Code:	2
Phone Number:	7183847727
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	JACK BORDORE; OWNER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[24W52]
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6101-00067
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

AH212 **GREENPOINT ENERGY FACILITY** **NY CBS** **S100494601**
NNW **287 MASPETH AVENUE** **NY AST** **N/A**
1/4-1/2 **BROOKLYN, NY 11211** **NY MOSF AST**
0.359 mi. **NY Spills**
1897 ft. **Site 2 of 7 in cluster AH** **NY AIRS**
NY HSWDS

Relative:
Higher

Actual:
14 ft.

CBS:

Name:	NATIONAL GRID GREENPOINT SERVICE CENTER
Address:	287 MASPETH AVE.
City,State,Zip:	BROOKLYN, NY 11211
CBS Number:	2-000519
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	590235.61396
UTMY:	4508095.73908

AST:

Name:	NATIONAL GRID GREENPOINT SERVICE CENTER
Address:	287 MASPETH AVE.
City,State,Zip:	BROOKLYN, NY 11211
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-000519
Program Type:	CBS
UTM X:	590235.61396
UTM Y:	4508095.73908
Expiration Date:	N/A
Site Type:	Utility (Other than Municipal)

Tank Info:

Tank Number:	004
Tank Id:	264549
Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/01/1998
Capacity Gallons:	280
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	08/10/2017
Register:	True
Modified By:	ACDANIEL
Last Modified:	09/12/2017
Material Name:	Not reported

MOSF AST:

MOSF Number:	2-2340
SWIS Code:	61
Facility Town:	NEW YORK CITY
Facility Phone:	(718) 963-5414
Emergency Contact Name:	ROBERT GUIDI

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Emergency Contact Phone:	(718) 963-5414
Total Tanks:	0
Total Capacity:	0
Daily Throughput:	0
License Status:	Not reported
Facility Type:	MANUFACTURING
Product Transfer Operation:	CD
Facility Status:	ABANDONED/REMOVED
Operator Name:	ROBERT GUIDI
Owner Name:	BROOKLYN UNION GAS
Owner Address:	195 MONTAGUE STREET
Owner City,St,Zip:	BROOKLYN, NY 11201-
Owner Phone:	(718) 963-5414
Owner Type:	Corporate/Commercial
Owner Status:	1
Owner Mark:	First Owner
Mailing Name:	BROOKLYN UNION GAS
Mailing Address:	287 MASPETH AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11211-
Mailing Contact:	ROBERT GUIDI
Mailing Phone:	(718) 963-5414
Legal Agent Name:	SECRETARY OF STATE OF THE STATE OF NY
Legal Agent Address:	195 MONTAGUE STREET
Legal Agent City,St,Zip:	BROOKLYN, NY 11201-
LIC Expires:	03/31/1992

Tank ID:	T-1001
Tank Location:	ABOVEGROUND
Install Date:	00/73
Product:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Wrapped (Piping
Secondary Containment:	Other
Leak Detection:	Groundwater Well
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	Not reported
Date Closed:	10/91
Status of Data:	Complete
Capacity (gal):	417826
Lat/Long:	40|43|28 / 73|55|41
Federal ID:	Not reported
Inspected Date:	/ /
Inspector:	Not reported
Renew Date:	10/30/1991
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	0
COI Date:	/ /

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Date License Issued: 10/23/1991
Date License Application Received: 02/06/1992
Chemical Bulk Storage Number: Not reported
Pollution Discharge Elimination System Num: Not reported
Date Legal Agent Filed with Secretary of State: 02/78

Tank ID: T-1002
Tank Location: ABOVEGROUND
Install Date: 00/73
Product: EMPTY
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: CATHODIC PROTECTION
Pipe Location: Aboveground/Underground Combination
Pipe Type: Steel/Iron
Pipe Internal: None
Pipe External: Wrapped (Piping
Secondary Containment: Other
Leak Detection: Groundwater Well
Overfill Protection: High Level Alarm
Dispensing Mthd: Suction
Test Date: 12/90
Date Closed: 11/91
Status of Data: Complete
Capacity (gal): 417826
Lat/Long: 40|43|28 / 73|55|41
Federal ID: Not reported
Inspected Date: / /
Inspector: Not reported
Renew Date: 10/30/1991
Inspected State: Not reported
Pipe Flag: True
Vessel ID: Not reported
Reserve Flag: True
Tank Status: 0
COI Date: / /
Date License Issued: 10/23/1991
Date License Application Received: 02/06/1992
Chemical Bulk Storage Number: Not reported
Pollution Discharge Elimination System Num: Not reported
Date Legal Agent Filed with Secretary of State: 02/78

Tank ID: T-1003
Tank Location: ABOVEGROUND
Install Date: 00/56
Product: EMPTY
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: PAINTED [e.g. asphaltic]
Pipe Location: Aboveground/Underground Combination
Pipe Type: Steel/Iron
Pipe Internal: None
Pipe External: Wrapped (Piping
Secondary Containment: 8A
Leak Detection: Groundwater Well

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	12/90
Date Closed:	11/91
Status of Data:	Complete
Capacity (gal):	1969093
Lat/Long:	40|43|28 / 73|55|41
Federal ID:	Not reported
Inspected Date:	/ /
Inspector:	Not reported
Renew Date:	10/30/1991
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	0
COI Date:	/ /
Date License Issued:	10/23/1991
Date License Application Received:	02/06/1992
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	Not reported
Date Legal Agent Filed with Secretary of State:	02/78

Tank ID:	T-1004
Tank Location:	ABOVEGROUND
Install Date:	00/56
Product:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Wrapped (Piping
Secondary Containment:	8A
Leak Detection:	02
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	12/90
Date Closed:	11/91
Status of Data:	Complete
Capacity (gal):	1969093
Lat/Long:	40|43|28 / 73|55|41
Federal ID:	Not reported
Inspected Date:	/ /
Inspector:	Not reported
Renew Date:	10/30/1991
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	0
COI Date:	/ /
Date License Issued:	10/23/1991
Date License Application Received:	02/06/1992
Chemical Bulk Storage Number:	Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Pollution Discharge Elimination System Num: Not reported
Date Legal Agent Filed with Secretary of State: 02/78

Tank ID: T-1005
Tank Location: ABOVEGROUND
Install Date: 00/56
Product: EMPTY
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: PAINTED [e.g. asphaltic]
Pipe Location: Aboveground/Underground Combination
Pipe Type: Steel/Iron
Pipe Internal: None
Pipe External: Wrapped (Piping
Secondary Containment: Concrete Dike
Leak Detection: Groundwater Well
Overfill Protection: High Level Alarm
Dispensing Mthd: Suction
Test Date: 12/90
Date Closed: 11/91
Status of Data: Complete
Capacity (gal): 1969093
Lat/Long: 40|43|28 / 73|55|41
Federal ID: Not reported
Inspected Date: / /
Inspector: Not reported
Renew Date: 10/30/1991
Inspected State: Not reported
Pipe Flag: True
Vessel ID: Not reported
Reserve Flag: True
Tank Status: 0
COI Date: / /
Date License Issued: 10/23/1991
Date License Application Received: 02/06/1992
Chemical Bulk Storage Number: Not reported
Pollution Discharge Elimination System Num: Not reported
Date Legal Agent Filed with Secretary of State: 02/78

SPILLS:
Name: NATIONAL GRID
Address: 287 MASPETH AVE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 1903222 / 2019-06-28
Facility ID: 1903222
Facility Type: ER
DER Facility ID: 394939
Site ID: 591177
DEC Region: 2
Spill Cause: Human Error
Spill Class: C4
SWIS: 2401
Spill Date: 2019-06-28
Investigator: PXLAKHAN
Referred To: Not reported
Reported to Dept: 2019-06-28

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2019-06-28
Spill Record Last Update:	2019-06-28
Spiller Name:	KEN WALSH
Spiller Company:	MILLER ENVIRONMENTAL
Spiller Address:	287 MASPETH AVE
Spiller Company:	999
Contact Name:	KEN WALSH
DEC Memo:	"06/28/19 - Lakhani 1 gallon spilled while National Grid was cutting into their gas line on their site. There was oil condensate in the pipe. 1 gallon spilled to the asphalt surface. The remaining product was caught in spill buckets. Cleanup is being performed by Miller Environmental. "
Remarks:	""

All Materials:

Site ID:	591177
Operable Unit ID:	1338800
Operable Unit:	01
Material ID:	2348308
Material Code:	0013
Material Name:	lube oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

Name:	NATIONAL GRID PROPERTY
Address:	287 MASPETH AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	2005923 / 2020-09-30
Facility ID:	2005923
Facility Type:	ER
DER Facility ID:	394939
Site ID:	611731
DEC Region:	2
Spill Cause:	Human Error
Spill Class:	Not reported
SWIS:	2401
Spill Date:	2020-09-30
Investigator:	RJFENG
Referred To:	Not reported
Reported to Dept:	2020-09-30
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Passenger Vehicle

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2020-09-30
Spill Record Last Update:	2020-09-30
Spiller Name:	NANCY WAGNER
Spiller Company:	NATIONAL GRID
Spiller Address:	287 MASTIC AVE
Spiller Company:	999
Contact Name:	NANCY WAGNER
DEC Memo:	"9/30/2020 - Feng - Desk Duty in office. Spoke to Nancy Wagner of Miller Environmental. The correct address is 287 Maspeth Ave, Brooklyn. It is a National Grid property. They were doing a fire test today. The fire retardant form, a baking soda like chemical was spilled on the pavement of the basement. The facility is equipped with a gas pump. The chemical material was using in the fire test and spilled on the ground. No known the quantity it spilled. No impact to the soil and drain. The company who spilled the material will vac it up and remove it. She will call them for updates and will respond to my email. Nancy Wagner Miller Environmental 631-506-9144 NWagner@millerenv.com Received photos from Nancy Wagner. It is the dry chemical or fire retardant material, fell from the overhead fire suppression system at the gas pumps. As per R. Austin, it is not something DEC would respond. Spill is closed. "
Remarks:	"unk amount of product freed. clean up pending."

All Materials:

Site ID:	611731
Operable Unit ID:	1358879
Operable Unit:	01
Material ID:	2370324
Material Code:	0980A
Material Name:	fire retardant foam
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

Name:	COMMERCIAL PROPERTY
Address:	287 MASPETH AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	2006012 / 2020-12-02
Facility ID:	2006012
Facility Type:	ER
DER Facility ID:	394939
Site ID:	611830
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C5
SWIS:	2401
Spill Date:	2020-09-25

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Investigator:	EJKIM
Referred To:	Not reported
Reported to Dept:	2020-10-02
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2020-10-02
Spill Record Last Update:	2020-12-04
Spiller Name:	Not reported
Spiller Company:	NAT GRID
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	CHRIS MORRIS
DEC Memo:	"10/2/20 - Kim - Desk Duty - I called Chris with GEI who stated that this spill is at a State Superfund site; DEC-Albany PM: Greta White. The spill that was called in is not directly related to the Former MGP site. In the southwest corner of the site there are 7 USTs (4 in one bank and 3 in another) that were associated with a former varnish company that closed in 1933. The tank systems have been out of service for approximately 80-90 years. As part of the GEI Work Plan, they investigated the USTs and dug some borings and test pits. In the soil from the borings, GEI found some staining and high PID readings and in a test pit, the water had a sheen. The tanks are supposed to have stored turpentine. After GEI pulled that tanks and inspected them, they found a few inches of water and a small amount of product. The product smelled almost like fuel oil with a hint of a solvent smell. These tanks are located beneath the building foundation so their removal would be complicated. 12/2/20 - Kim - I received a call from DEC-Albany PM Greta White. This spill case is being consolidated and will be managed by DEC White under Remedial MGP Site no. 224052, K - Greenpoint MGP - Energy Center. This spill case is closed."
Remarks:	"superfund site - cleanup pending - under investigation"

All Materials:

Site ID:	611830
Operable Unit ID:	1358975
Operable Unit:	01
Material ID:	2370441
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

AIRS:

Name:	GREENPOINT ENERGY CTR

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Address:	287 MASPETH AVE
City,State,Zip:	BROOKLYN, NY 11211
DECID:	2610100071
Process ID:	Not reported
Latitude:	40.720050931
Longitude:	73.930320909
FIPS Code:	Not reported
Auth Type Code:	ATV
Permit Status:	Issued
Auth Status Code:	Not reported
Emissions:	Not reported
Issue date:	10/31/2017
Expired Date:	12/10/2022
Emission Unit date:	Not reported
Contamination:	Not reported
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	Not reported
Permit Status:	Expired
Auth Status Code:	Not reported
Emissions:	Not reported
Issue date:	12/11/2012
Expired Date:	12/10/2017
Emission Unit date:	Not reported
Contamination:	Not reported
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	Not reported
Permit Status:	Expired
Auth Status Code:	Not reported
Emissions:	Not reported
Issue date:	09/18/2007
Expired Date:	09/17/2012
Emission Unit date:	Not reported
Contamination:	Not reported
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	Not reported
Permit Status:	Expired
Auth Status Code:	Not reported
Emissions:	Not reported
Issue date:	09/12/2007
Expired Date:	Not reported
Emission Unit date:	Not reported
Contamination:	Not reported
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	Not reported
Permit Status:	Expired
Auth Status Code:	Not reported
Emissions:	Not reported
Issue date:	02/20/2003

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Expired Date: 09/11/2007
Emission Unit date: Not reported
Contamination: Not reported
EPA Control Code: Not reported
Control Eff: Not reported
Unit: Not reported

Permit Status: Expired
Auth Status Code: Not reported
Emissions: Not reported
Issue date: 01/31/2005
Expired Date: 09/11/2007
Emission Unit date: Not reported
Contamination: Not reported
EPA Control Code: Not reported
Control Eff: Not reported
Unit: Not reported

Permit Status: Expired
Auth Status Code: Not reported
Emissions: Not reported
Issue date: 06/16/2003
Expired Date: 09/11/2007
Emission Unit date: Not reported
Contamination: Not reported
EPA Control Code: Not reported
Control Eff: Not reported
Unit: Not reported

AIRS Detail:
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
Auth Type: ATV

Issue Date: Not reported
Expiration Date: Not reported
Year: Not reported
CAS #: Not reported
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): Not reported

Issue Date: Not reported
Expiration Date: Not reported
Year: Not reported
CAS #: Not reported
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): Not reported

Issue Date: Not reported
Expiration Date: Not reported
Year: Not reported
CAS #: Not reported
Contaminant: PARTICULATES
Amount(Lbs/Yr): Not reported

Issue Date: Not reported
Expiration Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Year:	Not reported
CAS #:	Not reported
Contaminant:	VOC
Amount(Lbs/Yr):	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	Not reported
CAS #:	Not reported
Contaminant:	SULFUR DIOXIDE
Amount(Lbs/Yr):	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	Not reported
CAS #:	Not reported
Contaminant:	TOTAL HAP
Amount(Lbs/Yr):	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	Not reported
CAS #:	Not reported
Contaminant:	PM-10
Amount(Lbs/Yr):	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2016
CAS #:	000124389
Contaminant:	CARBON DIOXIDE
Amount(Lbs/Yr):	29067
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2016
CAS #:	065996932
Contaminant:	PITCH, COAL TAR, HIGH-TEMP.
Amount(Lbs/Yr):	0.46999999999999997
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2016
CAS #:	007446095
Contaminant:	SULFUR DIOXIDE
Amount(Lbs/Yr):	3
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2016
CAS #:	000124389
Contaminant:	CARBON DIOXIDE
Amount(Lbs/Yr):	524183
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2016

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 4256

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 1568

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 87

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 9

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount(Lbs/Yr): 137151

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 236

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount(Lbs/Yr): 1

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 77

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY210000

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 6362

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 114

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 96

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 065996932
Contaminant: PITCH, COAL TAR, HIGH-TEMP.
Amount(Lbs/Yr): 2.9999999999999999E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 1389

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 065996932
Contaminant: PITCH, COAL TAR, HIGH-TEMP.
Amount(Lbs/Yr): 0.46999999999999997

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount(Lbs/Yr): 29067

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Amount(Lbs/Yr): 353

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount(Lbs/Yr): 3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount(Lbs/Yr): 524183

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 4256

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 1568

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 87

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 9

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount(Lbs/Yr): 137151

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 236

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount(Lbs/Yr): 1

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 77

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 6362

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 114

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 96

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 065996932
Contaminant: PITCH, COAL TAR, HIGH-TEMP.
Amount(Lbs/Yr): 2.9999999999999999E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2016
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 1389

Issue Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Expiration Date: Not reported
Year: 2016
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 353

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000078922
Contaminant: SEC-BUTYL ALCOHOL (8CI)
Amount(Lbs/Yr): 0.02

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000083329
Contaminant: ACENAPHTHENE
Amount(Lbs/Yr): 3.5988071674e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000085018
Contaminant: PHENANTHRENE
Amount(Lbs/Yr): 2.2292524622e-005

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000086737
Contaminant: FLUORENE
Amount(Lbs/Yr): 5.598012426e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount(Lbs/Yr): 0.00079990823645

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount(Lbs/Yr): 4.7980926208e-005

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000106978
Contaminant: BUTANE
Amount(Lbs/Yr): 2.7537824533

Issue Date: Not reported
Expiration Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Year: 2012
CAS #: 000108883
Contaminant: TOLUENE
Amount(Lbs/Yr): 0.0044585049245

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000109660
Contaminant: PENTANE
Amount(Lbs/Yr): 3.4094449422

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000110543
Contaminant: HEXANE
Amount(Lbs/Yr): 2.36038496

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000111762
Contaminant: ETHANOL, 2-BUTOXY-
Amount(Lbs/Yr): 0.03

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000120127
Contaminant: ANTHRACENE
Amount(Lbs/Yr): 4.7982114717e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount(Lbs/Yr): 667766

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000129000
Contaminant: PYRENE
Amount(Lbs/Yr): 9.9960262934e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount(Lbs/Yr): 0.0010254307006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

CAS #: 000193395
Contaminant: INDENO[1,2,3-CD]PYRENE
Amount(Lbs/Yr): 3.5988071674e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount(Lbs/Yr): 3.5988071674e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount(Lbs/Yr): 5.997615776e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount(Lbs/Yr): 2.3605424016e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000218019
Contaminant: CHRYSENE
Amount(Lbs/Yr): 2.3605424016e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 3666

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 001746016
Contaminant: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
Amount(Lbs/Yr): 1.8232682681e-009

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007439921
Contaminant: LEAD
Amount(Lbs/Yr): 0.00099960262934

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007439965

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Contaminant: MANGANESE
Amount(Lbs/Yr): 0.0007596979983

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007439976
Contaminant: MERCURY
Amount(Lbs/Yr): 1.4077622727e-008

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount(Lbs/Yr): 0.0021991257845

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount(Lbs/Yr): 0.0041983310432

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440382
Contaminant: ARSENIC
Amount(Lbs/Yr): 0.00039963304782

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440393
Contaminant: BARIUM
Amount(Lbs/Yr): 0.0087965031382

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440417
Contaminant: BERYLLIUM
Amount(Lbs/Yr): 2.3990463104e-005

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440439
Contaminant: CADMIUM
Amount(Lbs/Yr): 0.0021985987738

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440473
Contaminant: CHROMIUM

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Amount(Lbs/Yr): 0.0027981893484

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440484
Contaminant: COBALT
Amount(Lbs/Yr): 0.00016793324173

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440508
Contaminant: COPPER
Amount(Lbs/Yr): 0.0016993244699

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440622
Contaminant: VANADIUM
Amount(Lbs/Yr): 0.004598172095

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440666
Contaminant: ZINC
Amount(Lbs/Yr): 0.057976952502

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount(Lbs/Yr): 3.56126

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007664417
Contaminant: AMMONIA
Amount(Lbs/Yr): 6.47104

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007727437
Contaminant: SULFURIC ACID BARIUM SALT
Amount(Lbs/Yr): 0.01

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007782492
Contaminant: SELENIUM
Amount(Lbs/Yr): 4.7980926208e-005

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount(Lbs/Yr): 4.44884

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 013463677
Contaminant: TITANIUM DIOXIDE
Amount(Lbs/Yr): 0.08

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 014807966
Contaminant: TALC
Amount(Lbs/Yr): 0.02

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount(Lbs/Yr): 0.0015735899733

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 065996932
Contaminant: PITCH, COAL TAR, HIGH-TEMP.
Amount(Lbs/Yr): 0.39

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 068855549
Contaminant: KIESELGHUR SODA ASH FLUX CALCINED
Amount(Lbs/Yr): 0.01

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 0NY075025
Contaminant: PM 2.5
Amount(Lbs/Yr): 1157.3180408

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 1142.7700131

Issue Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Expiration Date: Not reported
Year: 2012
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 5429.25

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 1315.68

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount(Lbs/Yr): 0.0044913830703

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount(Lbs/Yr): 8.2169856504e-008

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount(Lbs/Yr): 8.2169856504e-008

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000056495
Contaminant: 3-METHYLCHOLANTHRENE
Amount(Lbs/Yr): 1.8506019817e-007

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount(Lbs/Yr): 1.2338793675e-007

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000057976
Contaminant: 7,12-DIMETHYLBENZ[A]ANTHRACENE
Amount(Lbs/Yr): 1.6442819861e-006

Issue Date: Not reported
Expiration Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Year:	2012
CAS #:	000071432
Contaminant:	BENZENE
Amount(Lbs/Yr):	0.00014389045528
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	000074828
Contaminant:	METHANE
Amount(Lbs/Yr):	0.22137
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	000074840
Contaminant:	ETHANE
Amount(Lbs/Yr):	0.32674
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	000074986
Contaminant:	PROPANE
Amount(Lbs/Yr):	0.10963082307
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	000083329
Contaminant:	ACENAPHTHENE
Amount(Lbs/Yr):	1.8506019817e-007
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	000085018
Contaminant:	PHENANTHRENE
Amount(Lbs/Yr):	1.1648274951e-006
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	000086737
Contaminant:	FLUORENE
Amount(Lbs/Yr):	2.878278223e-007
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	000091203
Contaminant:	NAPHTHALENE
Amount(Lbs/Yr):	4.1796751294e-005
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount(Lbs/Yr): 2.4664229792e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000106978
Contaminant: BUTANE
Amount(Lbs/Yr): 0.14389045528

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000108883
Contaminant: TOLUENE
Amount(Lbs/Yr): 0.00023296549902

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000109660
Contaminant: PENTANE
Amount(Lbs/Yr): 0.17815008748

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000110543
Contaminant: HEXANE
Amount(Lbs/Yr): 0.12333467595

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000120127
Contaminant: ANTHRACENE
Amount(Lbs/Yr): 2.4668153528e-007

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount(Lbs/Yr): 807388

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000129000
Contaminant: PYRENE
Amount(Lbs/Yr): 5.1383812066e-007

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000191242

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Contaminant: BENZO[G,H,I]PERYLENE
Amount(Lbs/Yr): 0.0018930997447

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000193395
Contaminant: INDENO[1,2,3-CD]PYRENE
Amount(Lbs/Yr): 1.8506019817e-007

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount(Lbs/Yr): 1.8506019817e-007

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount(Lbs/Yr): 3.0830287239e-007

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount(Lbs/Yr): 1.2338793675e-007

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000218019
Contaminant: CHRYSENE
Amount(Lbs/Yr): 1.2338793675e-007

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 6464.124

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007439921
Contaminant: LEAD
Amount(Lbs/Yr): 1.9320943619e-005

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007439965
Contaminant: MANGANESE

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Amount(Lbs/Yr): 3.905169717e-005

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007439976
Contaminant: MERCURY
Amount(Lbs/Yr): 2.3316824757e-005

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount(Lbs/Yr): 0.00011304438654

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount(Lbs/Yr): 0.00021211188012

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440382
Contaminant: ARSENIC
Amount(Lbs/Yr): 2.0553524826e-005

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440393
Contaminant: BARIUM
Amount(Lbs/Yr): 0.00045217754618

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440417
Contaminant: BERYLLIUM
Amount(Lbs/Yr): 1.2332114896e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440439
Contaminant: CADMIUM
Amount(Lbs/Yr): 0.00011196016105

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 007440473
Contaminant: CHROMIUM
Amount(Lbs/Yr): 6.3113607506e-005

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	007440484
Contaminant:	COBALT
Amount(Lbs/Yr):	8.632480427e-006
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	007440508
Contaminant:	COPPER
Amount(Lbs/Yr):	8.6444524755e-005
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	007440622
Contaminant:	VANADIUM
Amount(Lbs/Yr):	0.00014606094982
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	007440666
Contaminant:	ZINC
Amount(Lbs/Yr):	0.0029802610998
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	007446095
Contaminant:	SULFUR DIOXIDE
Amount(Lbs/Yr):	3.01542
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	007664417
Contaminant:	AMMONIA
Amount(Lbs/Yr):	0.0432
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	007782492
Contaminant:	SELENIUM
Amount(Lbs/Yr):	2.4664229792e-006
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2012
CAS #:	010024972
Contaminant:	NITROUS OXIDE
Amount(Lbs/Yr):	0.14278
Issue Date:	Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Expiration Date: Not reported
Year: 2012
CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount(Lbs/Yr): 8.22231173e-005

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 065996932
Contaminant: PITCH, COAL TAR, HIGH-TEMP.
Amount(Lbs/Yr): 0.56

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 0NY075025
Contaminant: PM 2.5
Amount(Lbs/Yr): 0.7810339434

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 2106.538107

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 9659.49

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 2378.35

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount(Lbs/Yr): 0.098349373334

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount(Lbs/Yr): 1.5734325318e-006

Issue Date: Not reported
Expiration Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Year: 2012
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount(Lbs/Yr): 1.5734325318e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000056495
Contaminant: 3-METHYLCHOLANTHRENE
Amount(Lbs/Yr): 3.5988071674e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount(Lbs/Yr): 2.3605424016e-006

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000057976
Contaminant: 7,12-DIMETHYLBENZ[A]ANTHRACENE
Amount(Lbs/Yr): 3.1987284139e-005

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000071432
Contaminant: BENZENE
Amount(Lbs/Yr): 0.0027537824533

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000074828
Contaminant: METHANE
Amount(Lbs/Yr): 4.66106

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000074840
Contaminant: ETHANE
Amount(Lbs/Yr): 6.26882

Issue Date: Not reported
Expiration Date: Not reported
Year: 2012
CAS #: 000074986
Contaminant: PROPANE
Amount(Lbs/Yr): 2.0981199645

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount(Lbs/Yr): 2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 007664417
Contaminant: AMMONIA
Amount(Lbs/Yr): 6.4710400000000003

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 065996932
Contaminant: PITCH, COAL TAR, HIGH-TEMP.
Amount(Lbs/Yr): 0.39000000000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 0NY075025
Contaminant: PM 2.5
Amount(Lbs/Yr): 89.014716563254296

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 1068.3075928999999

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 5429.1800000000003

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 1308.8299999999999

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 000078922
Contaminant: SEC-BUTYL ALCOHOL (8CI)
Amount(Lbs/Yr): 0.01

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 000111762

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Contaminant: ETHANOL, 2-BUTOXY-
Amount(Lbs/Yr): 0.02

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 007727437
Contaminant: SULFURIC ACID BARIUM SALT
Amount(Lbs/Yr): 0.01

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 013463677
Contaminant: TITANIUM DIOXIDE
Amount(Lbs/Yr): 5.9999999999999998E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 014807966
Contaminant: TALC
Amount(Lbs/Yr): 0.01

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 0NY075000
Contaminant: PARTICULATES
Amount(Lbs/Yr): 0.26000000000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 0NY075005
Contaminant: PM-10
Amount(Lbs/Yr): 0.26000000000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 0NY075100
Contaminant: UNSPECIATED PARTICULATES (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 0.26000000000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 0NY998000
Contaminant: VOC
Amount(Lbs/Yr): 19.390000000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 000050000
Contaminant: FORMALDEHYDE

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Amount(Lbs/Yr):	9.8260462281297603E-2
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2011
CAS #:	000074828
Contaminant:	METHANE
Amount(Lbs/Yr):	0.01
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2011
CAS #:	000074840
Contaminant:	ETHANE
Amount(Lbs/Yr):	6.2688199999999998
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2011
CAS #:	000074986
Contaminant:	PROPANE
Amount(Lbs/Yr):	2.0962231953343502
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2011
CAS #:	000106978
Contaminant:	BUTANE
Amount(Lbs/Yr):	2.7512929438763298
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2011
CAS #:	000109660
Contaminant:	PENTANE
Amount(Lbs/Yr):	3.4063626924183201
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2011
CAS #:	000110543
Contaminant:	HEXANE
Amount(Lbs/Yr):	2.3582510947511399
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2011
CAS #:	000124389
Contaminant:	CARBON DIOXIDE
Amount(Lbs/Yr):	667766
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2011
CAS #:	000630080
Contaminant:	CARBON MONOXIDE
Amount(Lbs/Yr):	3666.8099999999999

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 007440393
Contaminant: BARIUM
Amount(Lbs/Yr): 8.6282457471472396E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2011
CAS #: 007440666
Contaminant: ZINC
Amount(Lbs/Yr): 5.6867983333470401E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount(Lbs/Yr): 22.4114

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount(Lbs/Yr): 8.2169944940508506E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 0NY075025
Contaminant: PM 2.5
Amount(Lbs/Yr): 268.88821886913598

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 28412.93

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 2275.1772000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 130498292
Contaminant: POLYCYCLIC AROMATIC HYDROCARBONS
Amount(Lbs/Yr): 1.0041797072368099

Issue Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Expiration Date: Not reported
Year: 2009
CAS #: 000078922
Contaminant: SEC-BUTYL ALCOHOL (8CI)
Amount(Lbs/Yr): 2.9999999999999999E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000111762
Contaminant: ETHANOL, 2-BUTOXY-
Amount(Lbs/Yr): 5.0000000000000003E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007727437
Contaminant: SULFURIC ACID BARIUM SALT
Amount(Lbs/Yr): 0.02

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 013463677
Contaminant: TITANIUM DIOXIDE
Amount(Lbs/Yr): 0.12

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 014807966
Contaminant: TALC
Amount(Lbs/Yr): 0.02

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 068855549
Contaminant: KIESELGHUR SODA ASH FLUX CALCINED
Amount(Lbs/Yr): 0.01

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 0.5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount(Lbs/Yr): 8.2170617120287802E-6

Issue Date: Not reported
Expiration Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Year: 2009
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount(Lbs/Yr): 8.2170617120287802E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount(Lbs/Yr): 1.23254245230983E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000083329
Contaminant: ACENAPHTHENE
Amount(Lbs/Yr): 1.8231543877852001E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000085018
Contaminant: PHENANTHRENE
Amount(Lbs/Yr): 1.16407421999054E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount(Lbs/Yr): 0.51356215587817799

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000071432
Contaminant: BENZENE
Amount(Lbs/Yr): 0.014379740364589

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000074828
Contaminant: METHANE
Amount(Lbs/Yr): 23.440100000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000074840
Contaminant: ETHANE
Amount(Lbs/Yr): 31.579699999999999

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

CAS #: 000074986
Contaminant: PROPANE
Amount(Lbs/Yr): 10.9559926587345

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000106978
Contaminant: BUTANE
Amount(Lbs/Yr): 14.379740364589001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000108883
Contaminant: TOLUENE
Amount(Lbs/Yr): 0.0232814843998107

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000109660
Contaminant: PENTANE
Amount(Lbs/Yr): 17.8034880704435

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000110543
Contaminant: HEXANE
Amount(Lbs/Yr): 12.3254917410763

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount(Lbs/Yr): 4649984

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 8553.0962999999992

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount(Lbs/Yr): 8.5026922877807498E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000050328

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Contaminant: BENZO(A)PYRENE
Amount(Lbs/Yr): 1.36043076604492E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount(Lbs/Yr): 1.36043076604492E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount(Lbs/Yr): 2.0406461490673802E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000071432
Contaminant: BENZENE
Amount(Lbs/Yr): 0.00238075384057861

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000074828
Contaminant: METHANE
Amount(Lbs/Yr): 4.04535

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000074840
Contaminant: ETHANE
Amount(Lbs/Yr): 5.4389500000000002

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000074986
Contaminant: PROPANE
Amount(Lbs/Yr): 1.8139076880598901

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000078922
Contaminant: SEC-BUTYL ALCOHOL (8CI)
Amount(Lbs/Yr): 0.01

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000083329
Contaminant: ACENAPHTHENE

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Amount(Lbs/Yr): 3.1476948252290001E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000085018
Contaminant: PHENANTHRENE
Amount(Lbs/Yr): 1.9272769185636399E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000086737
Contaminant: FLUORENE
Amount(Lbs/Yr): 4.8964141725784401E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount(Lbs/Yr): 6.9155230607283397E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount(Lbs/Yr): 4.19692643363867E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000106978
Contaminant: BUTANE
Amount(Lbs/Yr): 2.3807538405786102

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000108883
Contaminant: TOLUENE
Amount(Lbs/Yr): 0.00385455383712727

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000109660
Contaminant: PENTANE
Amount(Lbs/Yr): 2.9475999930973198

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000110543
Contaminant: HEXANE
Amount(Lbs/Yr): 2.04064614906738

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000111762
Contaminant: ETHANOL, 2-BUTOXY-
Amount(Lbs/Yr): 0.02

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000120127
Contaminant: ANTHRACENE
Amount(Lbs/Yr): 4.1969264336386697E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount(Lbs/Yr): 796150

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000129000
Contaminant: PYRENE
Amount(Lbs/Yr): 8.7435967367472207E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount(Lbs/Yr): 0.00140903892550488

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount(Lbs/Yr): 3.1476948252290001E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount(Lbs/Yr): 5.2461580420483299E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount(Lbs/Yr): 2.0406461490673802E-6

Issue Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Expiration Date: Not reported
Year: 2009
CAS #: 000218019
Contaminant: CHRYSENE
Amount(Lbs/Yr): 2.0406461490673802E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 4958.2200000000003

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 001746016
Contaminant: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
Amount(Lbs/Yr): 2.07858372568733E-9

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007439921
Contaminant: LEAD
Amount(Lbs/Yr): 8.7435967367472203E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007439965
Contaminant: MANGANESE
Amount(Lbs/Yr): 6.6451335199278901E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007439976
Contaminant: MERCURY
Amount(Lbs/Yr): 1.2103284815572E-8

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount(Lbs/Yr): 0.00192359128208439

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount(Lbs/Yr): 3.5245115419737902E-3

Issue Date: Not reported
Expiration Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Year:	2009
CAS #:	007440382
Contaminant:	ARSENIC
Amount(Lbs/Yr):	3.3558699400971999E-4
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2009
CAS #:	007440393
Contaminant:	BARIUM
Amount(Lbs/Yr):	7.6943651283375601E-3
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2009
CAS #:	007440417
Contaminant:	BERYLLIUM
Amount(Lbs/Yr):	2.0984632168193299E-5
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2009
CAS #:	007440439
Contaminant:	CADMIUM
Amount(Lbs/Yr):	1.8520649817536201E-3
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2009
CAS #:	007440473
Contaminant:	CHROMIUM
Amount(Lbs/Yr):	2.3559944036243301E-4
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2009
CAS #:	007440484
Contaminant:	COBALT
Amount(Lbs/Yr):	1.4689242517735299E-4
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2009
CAS #:	007440508
Contaminant:	COPPER
Amount(Lbs/Yr):	0.00142616988932341
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2009
CAS #:	007440622
Contaminant:	VANADIUM
Amount(Lbs/Yr):	4.0220544989037202E-3
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2009

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

CAS #: 007440666
Contaminant: ZINC
Amount(Lbs/Yr): 0.0507128610731339

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount(Lbs/Yr): 3.6389

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007664417
Contaminant: AMMONIA
Amount(Lbs/Yr): 5.6143999999999998

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007727437
Contaminant: SULFURIC ACID BARIUM SALT
Amount(Lbs/Yr): 0.01

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007782492
Contaminant: SELENIUM
Amount(Lbs/Yr): 4.19692643363867E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount(Lbs/Yr): 3.8599000000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 013463677
Contaminant: TITANIUM DIOXIDE
Amount(Lbs/Yr): 4.0000000000000001E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 014807966
Contaminant: TALC
Amount(Lbs/Yr): 0.01

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 025321226

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Contaminant: DICHLOROBENZENE
Amount(Lbs/Yr): 1.3604307660449199E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 065996932
Contaminant: PITCH, COAL TAR, HIGH-TEMP.
Amount(Lbs/Yr): 0.14999999999999999

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 0NY075025
Contaminant: PM 2.5
Amount(Lbs/Yr): 1606.35604407497

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 0.17000000000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 7367.8900000000003

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 1787.3299999999999

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 130498292
Contaminant: POLYCYCLIC AROMATIC HYDROCARBONS
Amount(Lbs/Yr): 0.38

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007439921
Contaminant: LEAD
Amount(Lbs/Yr): 5.0643453626285804E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007439987
Contaminant: MOLYBDENUM

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Amount(Lbs/Yr): 1.1141559797782899E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount(Lbs/Yr): 2.1270250523040001E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007440393
Contaminant: BARIUM
Amount(Lbs/Yr): 0.0445662391911315

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007440439
Contaminant: CADMIUM
Amount(Lbs/Yr): 1.1141559797782899E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007440473
Contaminant: CHROMIUM
Amount(Lbs/Yr): 0.01418016701536

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007440508
Contaminant: COPPER
Amount(Lbs/Yr): 8.6093871164685896E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000086737
Contaminant: FLUORENE
Amount(Lbs/Yr): 2.8360234603109101E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount(Lbs/Yr): 4.1769722011425203E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount(Lbs/Yr): 2.43088577406172E-4

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000120127
Contaminant: ANTHRACENE
Amount(Lbs/Yr): 2.4308658885395302E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000129000
Contaminant: PYRENE
Amount(Lbs/Yr): 5.0643453626285802E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount(Lbs/Yr): 2.6630901103651401E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount(Lbs/Yr): 1.8231543877852001E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount(Lbs/Yr): 3.03860721757715E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount(Lbs/Yr): 1.23254245230983E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 000218019
Contaminant: CHRYSENE
Amount(Lbs/Yr): 1.23254245230983E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 001746016
Contaminant: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
Amount(Lbs/Yr): 1.18318857004577E-8

Issue Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Expiration Date: Not reported
Year: 2009
CAS #: 007439965
Contaminant: MANGANESE
Amount(Lbs/Yr): 0.00384890247559772

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007439976
Contaminant: MERCURY
Amount(Lbs/Yr): 2.6334595885668601E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007440382
Contaminant: ARSENIC
Amount(Lbs/Yr): 2.0257381450514301E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007440417
Contaminant: BERYLLIUM
Amount(Lbs/Yr): 1.21544288703086E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007440484
Contaminant: COBALT
Amount(Lbs/Yr): 8.5081002092160095E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007440666
Contaminant: ZINC
Amount(Lbs/Yr): 0.29373203103245799

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007440622
Contaminant: VANADIUM
Amount(Lbs/Yr): 2.3295988668091499E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007782492
Contaminant: SELENIUM
Amount(Lbs/Yr): 2.43088577406172E-4

Issue Date: Not reported
Expiration Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Year: 2009
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount(Lbs/Yr): 17.29692

Issue Date: Not reported
Expiration Date: Not reported
Year: 2009
CAS #: 007664417
Contaminant: AMMONIA
Amount(Lbs/Yr): 32.598399999999998

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007727437
Contaminant: SULFURIC ACID BARIUM SALT
Amount(Lbs/Yr): 0.02

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 0NY075025
Contaminant: PM 2.5
Amount(Lbs/Yr): 160.96396081215099

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 22336.66

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007439921
Contaminant: LEAD
Amount(Lbs/Yr): 3.2547628439923002E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007440622
Contaminant: VANADIUM
Amount(Lbs/Yr): 0.00149719090823646

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount(Lbs/Yr): 1.44034

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

CAS #: 000109660
Contaminant: PENTANE
Amount(Lbs/Yr): 1.1441978639495001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007440508
Contaminant: COPPER
Amount(Lbs/Yr): 5.5330968347869105E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007440393
Contaminant: BARIUM
Amount(Lbs/Yr): 2.8641913027132198E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000085018
Contaminant: PHENANTHRENE
Amount(Lbs/Yr): 7.4812937258236301E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 1856.684

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000074840
Contaminant: ETHANE
Amount(Lbs/Yr): 2.0295700000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007440382
Contaminant: ARSENIC
Amount(Lbs/Yr): 1.3019051375969199E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount(Lbs/Yr): 1.9528577063953798E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007440666

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Contaminant: ZINC
Amount(Lbs/Yr): 1.8877624495155301E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount(Lbs/Yr): 0.0330057076139278

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007440439
Contaminant: CADMIUM
Amount(Lbs/Yr): 7.1604782567830604E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000108883
Contaminant: TOLUENE
Amount(Lbs/Yr): 1.496258745164 7299E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000083329
Contaminant: ACENAPHTHENE
Amount(Lbs/Yr): 1.1715555396597299E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount(Lbs/Yr): 1.5622861651163001E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount(Lbs/Yr): 0.00136700039447677

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 6312.9107999999997

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Amount(Lbs/Yr): 2.1525296365980601E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007782492
Contaminant: SELENIUM
Amount(Lbs/Yr): 1.5622861651163001E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007440417
Contaminant: BERYLLIUM
Amount(Lbs/Yr): 7.8114308255815192E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 0.5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000120127
Contaminant: ANTHRACENE
Amount(Lbs/Yr): 1.56220662302755E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount(Lbs/Yr): 7.9202943396957504E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount(Lbs/Yr): 1.1715555396597299E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007440484
Contaminant: COBALT
Amount(Lbs/Yr): 5.4680015779070601E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000086737
Contaminant: FLUORENE
Amount(Lbs/Yr): 1.8225081084581901E-6

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 001746016
Contaminant: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
Amount(Lbs/Yr): 7.8314371491764998E-10

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 068855549
Contaminant: KIESELGHUR SODA ASH FLUX CALCINED
Amount(Lbs/Yr): 0.01

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007664417
Contaminant: AMMONIA
Amount(Lbs/Yr): 2.09504

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000110543
Contaminant: HEXANE
Amount(Lbs/Yr): 0.79213698273426703

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount(Lbs/Yr): 2.6844642192661299E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007439965
Contaminant: MANGANESE
Amount(Lbs/Yr): 2.4736197614341499E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 013463677
Contaminant: TITANIUM DIOXIDE
Amount(Lbs/Yr): 0.12

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 014807966
Contaminant: TALC
Amount(Lbs/Yr): 0.02

Issue Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Expiration Date: Not reported
Year: 2008
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount(Lbs/Yr): 5.2819887058753499E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount(Lbs/Yr): 5.2819887058753499E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000129000
Contaminant: PYRENE
Amount(Lbs/Yr): 3.2547628439923001E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount(Lbs/Yr): 9.1622199999999996

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount(Lbs/Yr): 1911600

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007440473
Contaminant: CHROMIUM
Amount(Lbs/Yr): 9.1133359631784402E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 130498292
Contaminant: POLYCYCLIC AROMATIC HYDROCARBONS
Amount(Lbs/Yr): 0.82112696238247196

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount(Lbs/Yr): 5.2809132182284502E-4

Issue Date: Not reported
Expiration Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Year: 2008
CAS #: 000078922
Contaminant: SEC-BUTYL ALCOHOL (8CI)
Amount(Lbs/Yr): 2.9999999999999999E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount(Lbs/Yr): 7.9202943396957504E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000218019
Contaminant: CHRYSENE
Amount(Lbs/Yr): 7.9202943396957504E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000071432
Contaminant: BENZENE
Amount(Lbs/Yr): 9.2415981318997795E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000106978
Contaminant: BUTANE
Amount(Lbs/Yr): 0.92415981318997797

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000074828
Contaminant: METHANE
Amount(Lbs/Yr): 1.5058100000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007439976
Contaminant: MERCURY
Amount(Lbs/Yr): 1.6924766788759999E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 000111762
Contaminant: ETHANOL, 2-BUTOXY-
Amount(Lbs/Yr): 5.0000000000000003E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

CAS #: 000074986
Contaminant: PROPANE
Amount(Lbs/Yr): 0.70412176243045899

Issue Date: Not reported
Expiration Date: Not reported
Year: 2008
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount(Lbs/Yr): 7.1604782567830604E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount(Lbs/Yr): 2.6844642192661299E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 001746016
Contaminant: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
Amount(Lbs/Yr): 7.8314371491764998E-10

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 0NY075005
Contaminant: PM-10
Amount(Lbs/Yr): 0

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007440382
Contaminant: ARSENIC
Amount(Lbs/Yr): 1.3019051375969199E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount(Lbs/Yr): 5.2819887058753499E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007440622
Contaminant: VANADIUM
Amount(Lbs/Yr): 0.00149719090823646

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007439965

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Contaminant: MANGANESE
Amount(Lbs/Yr): 2.4736197614341499E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000085018
Contaminant: PHENANTHRENE
Amount(Lbs/Yr): 7.4812937258236301E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 0NY075025
Contaminant: PM 2.5
Amount(Lbs/Yr): 160.96404938420901

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000074986
Contaminant: PROPANE
Amount(Lbs/Yr): 0.70412176243045899

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000120127
Contaminant: ANTHRACENE
Amount(Lbs/Yr): 1.56220662302755E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007440417
Contaminant: BERYLLIUM
Amount(Lbs/Yr): 7.8114308255815192E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount(Lbs/Yr): 1.9528577063953798E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000078922
Contaminant: SEC-BUTYL ALCOHOL (8CI)
Amount(Lbs/Yr): 0.13

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 014807966
Contaminant: TALC

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Amount(Lbs/Yr): 0.11

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount(Lbs/Yr): 2.0634921520950099E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000110543
Contaminant: HEXANE
Amount(Lbs/Yr): 0.79213698273426703

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000074840
Contaminant: ETHANE
Amount(Lbs/Yr): 2.0295700000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount(Lbs/Yr): 5.2819887058753499E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000083329
Contaminant: ACENAPHTHENE
Amount(Lbs/Yr): 1.1715555396597299E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount(Lbs/Yr): 5.2809132182284405E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount(Lbs/Yr): 9.5469200000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000106978
Contaminant: BUTANE
Amount(Lbs/Yr): 0.92415981318997797

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000071432
Contaminant: BENZENE
Amount(Lbs/Yr): 9.2415981318997795E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount(Lbs/Yr): 7.9202943396957504E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 22336.66

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007439976
Contaminant: MERCURY
Amount(Lbs/Yr): 1.6924766788759999E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000129000
Contaminant: PYRENE
Amount(Lbs/Yr): 3.2547628439923001E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000074828
Contaminant: METHANE
Amount(Lbs/Yr): 1.5058100000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 013463677
Contaminant: TITANIUM DIOXIDE
Amount(Lbs/Yr): 0.57999999999999996

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount(Lbs/Yr): 7.1604782567830604E-4

Issue Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Expiration Date: Not reported
Year: 2007
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount(Lbs/Yr): 7.9202943396957504E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount(Lbs/Yr): 1911600

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007664417
Contaminant: AMMONIA
Amount(Lbs/Yr): 2.09504

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000109660
Contaminant: PENTANE
Amount(Lbs/Yr): 1.1441978639495001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007440508
Contaminant: COPPER
Amount(Lbs/Yr): 5.5330968347869105E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 068855549
Contaminant: KIESELGHUR SODA ASH FLUX CALCINED
Amount(Lbs/Yr): 4.0000000000000001E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000218019
Contaminant: CHRYSENE
Amount(Lbs/Yr): 7.9202943396957504E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 130498292
Contaminant: POLYCYCLIC AROMATIC HYDROCARBONS
Amount(Lbs/Yr): 0.821127427809342

Issue Date: Not reported
Expiration Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Year: 2007
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount(Lbs/Yr): 0.0330057076139278

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 6312.9107999999997

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007440393
Contaminant: BARIUM
Amount(Lbs/Yr): 2.8641913027132198E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 2.52

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount(Lbs/Yr): 1.5622861651163001E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007782492
Contaminant: SELENIUM
Amount(Lbs/Yr): 1.5622861651163001E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000086737
Contaminant: FLUORENE
Amount(Lbs/Yr): 1.8225081084581901E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007727437
Contaminant: SULFURIC ACID BARIUM SALT
Amount(Lbs/Yr): 0.10000000000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

CAS #: 000108883
Contaminant: TOLUENE
Amount(Lbs/Yr): 1.4962587451647299E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount(Lbs/Yr): 0.00136700039447677

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007439921
Contaminant: LEAD
Amount(Lbs/Yr): 3.2547628439923002E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount(Lbs/Yr): 1.1715555396597299E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007440439
Contaminant: CADMIUM
Amount(Lbs/Yr): 7.1604782567830604E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007440666
Contaminant: ZINC
Amount(Lbs/Yr): 1.8877624495155301E-2

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount(Lbs/Yr): 1.44034

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007440484
Contaminant: COBALT
Amount(Lbs/Yr): 5.4680015779070601E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 000111762

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Contaminant: ETHANOL, 2-BUTOXY-
Amount(Lbs/Yr): 0.23999999999999999

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 007440473
Contaminant: CHROMIUM
Amount(Lbs/Yr): 9.1133359631784402E-4

Issue Date: Not reported
Expiration Date: Not reported
Year: 2007
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 2006.0440000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 014807966
Contaminant: TALC
Amount(Lbs/Yr): 0.11

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007727437
Contaminant: SULFURIC ACID BARIUM SALT
Amount(Lbs/Yr): 0.10000000000000001

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 2.52

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount(Lbs/Yr): 3.5289437550528098E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount(Lbs/Yr): 4.70525834007041E-10

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Amount(Lbs/Yr):	4.70525834007041E-10
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000056553
Contaminant:	BENZO(A)ANTHRACENE
Amount(Lbs/Yr):	9.41051668014082E-10
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000071432
Contaminant:	BENZENE
Amount(Lbs/Yr):	9.8810425141478502E-7
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000074828
Contaminant:	METHANE
Amount(Lbs/Yr):	1.6100000000000001E-3
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000074840
Contaminant:	ETHANE
Amount(Lbs/Yr):	2.1700000000000001E-3
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000074986
Contaminant:	PROPANE
Amount(Lbs/Yr):	7.5284133441126503E-4
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000083329
Contaminant:	ACENAPHTHENE
Amount(Lbs/Yr):	1.39198655320058E-9
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000085018
Contaminant:	PHENANTHRENE
Amount(Lbs/Yr):	7.9989391781196896E-9
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000086737
Contaminant:	FLUORENE
Amount(Lbs/Yr):	2.0879798298008599E-9

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000091203
Contaminant:	NAPHTHALENE
Amount(Lbs/Yr):	2.8702075874429498E-7
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000091576
Contaminant:	2-METHYL NAPHTHALENE
Amount(Lbs/Yr):	1.6703838638406899E-8
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000106978
Contaminant:	BUTANE
Amount(Lbs/Yr):	9.8810425141478511E-4
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000108883
Contaminant:	TOLUENE
Amount(Lbs/Yr):	1.5997878356239401E-6
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000109660
Contaminant:	PENTANE
Amount(Lbs/Yr):	1.2233671684183101E-3
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000110543
Contaminant:	HEXANE
Amount(Lbs/Yr):	8.4694650121267304E-4
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000120127
Contaminant:	ANTHRACENE
Amount(Lbs/Yr):	1.39198655320058E-9
Issue Date:	Not reported
Expiration Date:	Not reported
Year:	2006
CAS #:	000129000
Contaminant:	PYRENE
Amount(Lbs/Yr):	3.4799663830014401E-9
Issue Date:	Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Expiration Date: Not reported
Year: 2006
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount(Lbs/Yr): 0.00214940217627335

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount(Lbs/Yr): 1.39198655320058E-9

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount(Lbs/Yr): 2.0879798298008599E-9

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount(Lbs/Yr): 9.41051668014082E-10

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 000218019
Contaminant: CHRYSENE
Amount(Lbs/Yr): 9.41051668014082E-10

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007439921
Contaminant: LEAD
Amount(Lbs/Yr): 3.4799663830014398E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007439965
Contaminant: MANGANESE
Amount(Lbs/Yr): 2.6447744510810898E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007439976
Contaminant: MERCURY
Amount(Lbs/Yr): 1.8095825191607501E-7

Issue Date: Not reported
Expiration Date: Not reported

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Year: 2006
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount(Lbs/Yr): 7.6559260426031703E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount(Lbs/Yr): 1.4615858808606E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007440382
Contaminant: ARSENIC
Amount(Lbs/Yr): 1.3919865532005801E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007440393
Contaminant: BARIUM
Amount(Lbs/Yr): 3.0623704170412698E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007440417
Contaminant: BERYLLIUM
Amount(Lbs/Yr): 8.3519193192034496E-9

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007440439
Contaminant: CADMIUM
Amount(Lbs/Yr): 7.6559260426031703E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007440473
Contaminant: CHROMIUM
Amount(Lbs/Yr): 9.7439058724040298E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007440484
Contaminant: COBALT
Amount(Lbs/Yr): 5.8463435234424198E-8

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

CAS #: 007440508
Contaminant: COPPER
Amount(Lbs/Yr): 5.9159428511024398E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007440622
Contaminant: VANADIUM
Amount(Lbs/Yr): 1.6007845361806601E-6

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007440666
Contaminant: ZINC
Amount(Lbs/Yr): 2.0183805021408299E-5

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007664417
Contaminant: AMMONIA
Amount(Lbs/Yr): 2.2399999999999998E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007782492
Contaminant: SELENIUM
Amount(Lbs/Yr): 1.6703838638406899E-8

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount(Lbs/Yr): 1.5399999999999999E-3

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount(Lbs/Yr): 5.6463100080844898E-7

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount(Lbs/Yr): 1832464

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 000630080

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Contaminant: CARBON MONOXIDE
Amount(Lbs/Yr): 6248.9574000000002

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount(Lbs/Yr): 9.3972599999999993

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 0NY075025
Contaminant: PM 2.5
Amount(Lbs/Yr): 155.94937863010699

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount(Lbs/Yr): 28238.18

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount(Lbs/Yr): 2003.4223999999999

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 130498292
Contaminant: POLYCYCLIC AROMATIC HYDROCARBONS
Amount(Lbs/Yr): 0.98776151731499895

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 000078922
Contaminant: SEC-BUTYL ALCOHOL (8CI)
Amount(Lbs/Yr): 0.13

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 000111762
Contaminant: ETHANOL, 2-BUTOXY-
Amount(Lbs/Yr): 0.23999999999999999

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 013463677
Contaminant: TITANIUM DIOXIDE

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Amount(Lbs/Yr): 0.57999999999999996

Issue Date: Not reported
Expiration Date: Not reported
Year: 2006
CAS #: 068855549
Contaminant: KIESELGHUR SODA ASH FLUX CALCINED
Amount(Lbs/Yr): 4.0000000000000001E-2

AIRS Emissions:
County: KINGS
Municipality: BROOKLYN
Facility ID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
SIC Code: 4923

Year: 2019
VOC(tons): 1.3799999999999999
NOx(tons): 5.5599999999999996
Co(tons): 3.7200000000000002
Co2(tons): 471.51999999999998
Particulates: 0
PM10(tons): 1.1499999999999999
PM2.5(tons): 8.0000000000000002E-2
HAPS: 0
So2: 0

Year: 2018
VOC(tons): 0.57999999999999996
NOx(tons): 7.04
Co(tons): 2.0099999999999998
Co2(tons): 654.99000000000001
Particulates: 0.13
PM10(tons): 0.02
PM2.5(tons): 0.10000000000000001
HAPS: 0
So2: 0

Year: 2017
VOC(tons): 0.41999999999999998
NOx(tons): 5.2599999999999998
Co(tons): 1.6799999999999999
Co2(tons): 818.11000000000001
Particulates: 0.10000000000000001
PM10(tons): 0
PM2.5(tons): 0.10000000000000001
HAPS: 0
So2: 0

Year: 2016
VOC(tons): 0.93000000000000005
NOx(tons): 3.9399999999999999
Co(tons): 2.6699999999999999
Co2(tons): 579.99000000000001
Particulates: 0.82999999999999996
PM10(tons): 0.82999999999999996
PM2.5(tons): 0

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

HAPS:	0
So2:	0
Year:	2015
VOC(tons):	1.1200000000000001
NOx(tons):	4.8099999999999996
Co(tons):	3.48
Co2(tons):	779.54999999999995
Particulates:	1
PM10(tons):	1
PM2.5(tons):	0
HAPS:	0
So2:	0
Year:	2014
VOC(tons):	1.2
NOx(tons):	4.8300000000000001
Co(tons):	3.1099999999999999
Co2(tons):	403.69
Particulates:	0.98999999999999999
PM10(tons):	0.98999999999999999
PM2.5(tons):	0
HAPS:	0
So2:	0
Year:	2013
VOC(tons):	1.1899999999999999
NOx(tons):	4.8300000000000001
Co(tons):	3.23
Co2(tons):	403.69
Particulates:	1.05
PM10(tons):	1.05
PM2.5(tons):	0
HAPS:	0
So2:	0
Year:	2012
VOC(tons):	0.66000000000000003
NOx(tons):	2.71
Co(tons):	1.8300000000000001
Co2(tons):	333.88
Particulates:	1.1499999999999999
PM10(tons):	1.1499999999999999
PM2.5(tons):	0.57999999999999996
HAPS:	0
So2:	0
Year:	2011
VOC(tons):	0.66000000000000003
NOx(tons):	2.71
Co(tons):	1.8300000000000001
Co2(tons):	333.88
Particulates:	0.57999999999999996
PM10(tons):	0.57999999999999996
PM2.5(tons):	4.0000000000000001E-2
HAPS:	0
So2:	0

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Year:	2010
VOC(tons):	0.90000000000000002
NOx(tons):	3.6800000000000002
Co(tons):	2.48
Co2(tons):	397.80000000000001
Particulates:	0.80000000000000004
PM10(tons):	0.80000000000000004
PM2.5(tons):	0.80000000000000004
HAPS:	0
So2:	0

HSWDS:

Facility ID:	HS2012
Region:	2
Facility Status:	Unknown
Owner Type:	Publ Utily
Owner:	Brooklyn Union Gas Co.
Owner Address:	195 Montague Street
Owner Phone:	(718)403-3053
Operator Type:	Unknown
Operator:	Unknown
Operator:	Unknown
Operator Phone:	Unknown
EPA ID:	NYD980532014
Registry:	Not on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID:	Unknown
RCRA Permitted:	Unknown
Site Code:	Coal Gasification Plant
Owner City State:	Brooklyn
Operator City State:	Not reported
Quadrange:	Unknown
Latitude:	40 43 10 N
Longitude:	73 55 45 W
Acres:	0.00
Operator Date:	1928
Close Date:	Unknown
Completed:	PA
Active:	Unknown
PCB's Disposed:	Unknown
Pesticides Disposed:	No
Metals Disposed:	Unknown
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	No
Semi Volatile Organic Compounds Disposed:	No
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	None
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Environmental
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown

GREENPOINT ENERGY FACILITY (Continued) **S100494601**

Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	Unknown
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Unknown
Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	Not reported
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	Not reported
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

AH213 **GREENPOINT** **EDR MGP** **1008407892**
NNW **287 MASPETH AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY 11211**
0.359 mi.
1897 ft. **Site 3 of 7 in cluster AH**

Relative: Manufactured Gas Plants:
Higher No additional information available

Actual:
14 ft.

AH214 **BKLYN UNION GAS /GREENPOINT ENERGY FACIL** **SEMS-ARCHIVE** **1003863851**
NNW **287 MASPETH AVE** **NYD980532014**
1/4-1/2 **BROOKLYN, NY 11222**
0.359 mi.
1897 ft. **Site 4 of 7 in cluster AH**

Relative:
Higher

Actual:
14 ft.

SEMS Archive:

Site ID:	0201977
EPA ID:	NYD980532014
Name:	BKLYN UNION GAS /GREENPOINT ENERGY FACIL
Address:	287 MASPETH AVE
Address 2:	Not reported
City,State,Zip:	BROOKLYN, NY 11222
Cong District:	12
FIPS Code:	36047
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	02
Site ID:	0201977
EPA ID:	NYD980532014
Site Name:	BKLYN UNION GAS /GREENPOINT ENERGY FACIL
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1986-09-24 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	02
Site ID:	0201977
EPA ID:	NYD980532014
Site Name:	BKLYN UNION GAS /GREENPOINT ENERGY FACIL
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1986-09-05 04:00:00
Finish Date:	1986-09-24 04:00:00
Qual:	N
Current Action Lead:	EPA Perf

Region:	02
Site ID:	0201977
EPA ID:	NYD980532014
Site Name:	BKLYN UNION GAS /GREENPOINT ENERGY FACIL
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1

BKLYN UNION GAS /GREENPOINT ENERGY FACIL (Continued) **1003863851**

Start Date: 1981-06-01 04:00:00
Finish Date: 1981-06-01 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

AH215 **GREENPOINT** **NY SHWS** **S104787368**
NNW **287 MASPETH AVENUE** **NY SWF/LF** **N/A**
1/4-1/2 **BROOKLYN, NY 11211** **NY LTANKS**
0.359 mi. **NY MOSF**
1897 ft. **Site 5 of 7 in cluster AH** **NY TANKS**
NY VCP
Relative: Higher **NY BROWNFIELDS**
NY Spills
Actual: 14 ft. **NY MANIFEST**

SHWS:
Name: K - GREENPOINT MGP - ENERGY CENTER
Address: 287 MASPETH AVENUE
City,State,Zip: BROOKLYN, NY 11211
Program: HW
Site Code: 372971
Classification: Significant threat to the public health or environment - action required.
Region: 2
Acres: 117.000
HW Code: 224052
Record Add: 11/02/2006
Record Upd: 06/07/2021
Updated By: DJEATON
Site Description: "Location: The site is a large parcel located along Newtown Creek at 287 Maspeth Avenue in Brooklyn,NY in Kings County. It is bounded by Newtown Creek to the east, Maspeth Ave. to the south, Vandevoort Ave. to the west, and Lombardy St. to the north. This is a large property at 117 acres. Site Features: The site is currently known as the Greenpoint Energy Center and houses a major liquefied natural gas storage facility and compressor station, an operations center for KeySpan's distribution and service units, and a warehouse facility. Current zoning and land uses: Surrounding land uses are mixed industrial, residential, and commercial. The nearest residential land use is located adjacent to the northwest corner of the site. Past use of the site: A large manufactured gas plant (MGP) and byproduct coking operation operated on the site from 1928 until 1952. Coal tar has been found in subsurface soils, but the full extent of contamination has not yet been established. The surrounding neighborhood has also been subject to a large petroleum spill, apparently unrelated to the MGP. A VCA to address the northeast corner of the property was listed under V00631. This work was undertaken to allow expansion of the existing liquefied gas facility and included a relatively small portion of the site. A site-wide RI began in the summer of 2012. The RI will be conducted in 3 phases. Site Geology/hydrogeology: The site is underlain by fill and heterogeneous glacial deposits that include outwash sands with till and lenticular silt deposits. Bedrock is approximately 200 feet below the ground surface. Groundwater flows northeasterly, toward the Newtown Creek."
Env Problem: "A remedial investigation (RI) of the site was performed in a phased approach based on geography and the proximity to adjacent or nearby

GREENPOINT (Continued) **S104787368**

water bodies. Phases 1 and 2 of the RI were located on the eastern and southern boundaries of the site, respectively, and were implemented between October 2011 and March 2016. Phase 3 encompassed the remainder of the site and was implemented between April 2016 and July 2019. An earlier pre-design investigation (PDI) and supplemental PDI were performed to evaluate the potential need for an interim remedial measure (IRM) for non-aqueous phase liquid (NAPL) containment along the Newtown Creek loading platform. The PDI findings indicated that there were no identified subsurface NAPL migration pathways from the site to Newtown Creek sediment, and potentially mobile NAPL was not identified. Throughout the course of site investigations, soil, groundwater, and sediment samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), metals and cyanide. In addition, soils were analyzed for pesticides, herbicides, hexavalent chromium and total organic carbon while groundwater was analyzed for per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane. Sediment analysis also included pesticides, herbicides, ammonia, hexavalent chromium, dioxins and furans, total petroleum hydrocarbons (TPH), diesel range organics (DRO), black carbon, pH, sulfide, total nitrogen, total organic carbon, total phosphorus, normal alkanes and isoprenoid hydrocarbons. Soil vapor and indoor air have been analyzed for VOCs and naphthalene. Nature and Extent of Contamination: The principal contaminant of concern at the site is MGP related coal tar and associated petroleum contamination. Coal tar contains various volatile organic compounds (VOCs), primarily benzene, toluene, ethylbenzenes, and xylenes (collectively known as BTEX). A family of compounds referred to as polycyclic aromatic hydrocarbons (PAHs) are also associated with MGP coal tar. Areas of potentially NAPL-saturated soil were generally isolated to the southern portion of the Loading Platform Area and in the vicinity of Holder 1 along Maspeth Avenue. Three wells have accumulated recoverable coal tar; two in the loading platform area and one along Maspeth Avenue. No visual observations of potentially NAPL-saturated soil have been identified in the borings advanced within the site interior and no measurable NAPL has been visually observed in any of the wells installed within the interior. Soil: Soil concentrations above the Industrial Use Soil Cleanup Objectives (IUSCOs) primarily included PAHs. In the shallow zone, PAH exceedances of the IUSCOs were identified throughout the site; PAH concentrations generally decreased with depth and were largely identified in areas with noted physical impacts, particularly the Loading Platform Area where PAH exceedances of IUSCOs continued into the deep zone. The maximum concentration of total PAHs was observed near the Loading Dock Area at a concentration of 67,350 mg/kg in a sample collected from three to four feet below grade (ft bg). Concentrations of BTEX above the IUSCOs were identified in a limited number (total of three) samples sitewide. The maximum total BTEX concentration detected was 2,137.4 mg/kg from a sample collected from 15-16 ft bg along the Maspeth Alignment. Detections of metals in soil were mostly limited to the shallow zone. Detections in the intermediate or deep zones were limited to sporadic and relatively low detections of arsenic. Detections of cyanide were few and relatively low in concentration. The cyanide detections were generally limited to the site interior and were confined to the shallow soil zone. The maximum cyanide concentration detected was 29.4 mg/kg from three to four ft bg in the area of the former purifiers. There have been no detections of

GREENPOINT (Continued) **S104787368**

pesticides or herbicides above the IUSCOs. There were no PCB detections in soil above IUSCOs. Groundwater: Groundwater exceedances of standards and guidance values primarily included total BTEX, PAHs, chlorinated volatile organic compounds (CVOCs) and metals; cyanide and PCBs were detected in exceedance less frequently. The areas of elevated BTEX and PAH concentrations were primarily located near the southern Loading Platform Area in the vicinity of the identified soil impacts and along the southern property boundary along Maspeth Avenue. Elevated CVOC concentrations were generally found along the northern and western site perimeters and can be attributed to off-site sources. Total BTEX in groundwater ranged from non-detect (ND) to 455,100 parts per billion (ppb). Total PAHs in groundwater ranged from ND to 12,459 ppb. Numerous metals were detected above their corresponding standards, including arsenic, iron, lead, magnesium, manganese, and sodium, likely associated with regional conditions rather than historical site operations. Total cyanide concentrations in groundwater ranged from ND to 1,060 ppb. PCB exceedances were limited to three of the 148 groundwater samples analyzed, with a maximum total concentration of 1.54 ppb. Groundwater results were non-detect for 1,4-dioxane. While perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) were occasionally detected in groundwater above guidance values, total PFAS concentrations were not detected in any well above guidance values. The maximum PFOS concentration detected was 57.9 parts per trillion (ppt) while the maximum PFOA concentration was 97.5 ppt and maximum total PFAS concentration was 256.17 ppt. These PFAS concentrations are not indicative of a source area and concentrations are likely associated with off-site sources. Soil Vapor: Sub-slab vapor and indoor air samples were collected during 2018 and 2019. Results varied across the site from no further action (nine buildings) to identifying sources and resampling (two buildings) to mitigation recommendations (three buildings). Additional SVI sampling is to take place during the 2021 heating season."

Health Problem:	"Public exposures to wastes in soil and groundwater at the site are unlikely since access to the site is restricted. Potential impacts from soil vapors need to be evaluated. Potential exposures to seepage from the site in the adjacent Newtown Creek are unknown. Eating of fish and shellfish from Newtown Creek is restricted based on fish advisories for the East River, which apply to Newtown Creek as a tributary."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	False
Record Add:	2006-11-06 14:08:00
Record Upd:	2013-09-20 14:11:00
Updated By:	ldennist
Own Op:	1
Sub Type:	NNN
Owner Name:	N/A
Owner Company:	BROOKLYN UNION GAS COMPANY

GREENPOINT (Continued) **S104787368**

Owner Address: 1 METROTECH CENTER
Owner Addr2: Not reported
Owner City,St,Zip: BROOKLYN, NY 11201
Owner Country: United States of America
HW Code: 224052
Waste Type: BENZO(A)PYRENE
Waste Quantity: 33.00
Waste Code: Not reported
HW Code: 224052
Waste Type: NAPHTHALENE
Waste Quantity: 17.00
Waste Code: Not reported
HW Code: 224052
Waste Type: PYRENE
Waste Quantity: 83.00
Waste Code: Not reported
HW Code: 224052
Waste Type: BENZENE
Waste Quantity: 3.30
Waste Code: Not reported
HW Code: 224052
Waste Type: COAL TAR
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224052
Waste Type: COAL TAR
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2006012
Cross Ref Type Code: 01
Cross Ref Type: Spill No.
Record Added Date: 2020-12-02 13:44:00
Record Updated: 2020-12-02 13:44:00
Updated By: GLWHITE

SWF/LF:
Name: NATIONAL GRID
Address: 287 MASPETH AVENUE
City,State,Zip: BROOKLYN, NY 11222
Flag: ACTIVE
Region Code: 2
Phone Number: 7182705786
Owner Name: Mattia Auriemma
Owner Type: Private
Owner Address: 84-24 Ditmas Ave
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11236
Owner Email: Not reported
Owner Phone: 7182705786
Contact Name: Mattia Auriemma
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported
Contact Email: mattia@nationalgrid.com
Contact Phone: 7182705786
Activity Desc: C&D processing - registration
Activity Number: [24W38]

GREENPOINT (Continued) **S104787368**

Active:	Yes
East Coordinate:	590245
North Coordinate:	4508023
Accuracy Code:	4.3 - Utilization of Digital Orthophoto Quads
Regulatory Status:	Registration
Waste Type:	Asphalt;Concrete;Brick;Rock;Soil (Clean);Construction & Demolition Debris
Authorization #:	24W38
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Larry Caonigro
Operator Type:	Private
Laste Date:	9/8/2021

LTANKS:

Name:	CLOSED-LACKOF RECENT INFO
Address:	287 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9009058 / 2003-03-04
Facility ID:	9009058
Site ID:	118273
Spill Date:	1990-11-16
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	A3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	ADMIN. CLOSED
Referred To:	Not reported
Reported to Dept:	1990-11-16
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1990-11-20
Spill Record Last Update:	2003-03-04
Spiller Name:	Not reported
Spiller Company:	BROOKLYN UNION GAS
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	102793
DEC Memo:	""
Remarks:	"4K TANK FAILED HORNER EZY CHECK WITH AN UNDETERMINED LEAK RATE, WILL EXCAVATE, ISOLATE,REPAIR & RETEST. CLOSED DUE TO LACK OF ANY RECENT INFO - DOES NOT MEET ANY CLEANUP REQUIREMENTS."

All TTF:

Facility ID:	9009058
Spill Number:	9009058

GREENPOINT (Continued) **S104787368**

Spill Tank Test:	1537896
Site ID:	118273
Tank Number:	Not reported
Tank Size:	0
Material:	0009
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	118273
Operable Unit ID:	949558
Operable Unit:	01
Material ID:	432836
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

Name:	KEYSPAN ENERGY
Address:	287 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Spill Number/Closed Date:	9211562 / 2007-02-06
Facility ID:	9211562
Site ID:	181619
Spill Date:	1993-01-07
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	VSZHUNE
Referred To:	Not reported
Reported to Dept:	1993-01-07
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1993-01-08
Spill Record Last Update:	2007-02-06
Spiller Name:	FACILITY MANAGER

GREENPOINT (Continued) **S104787368**

Spiller Company:	KEYSPAN ENERGY
Spiller Address:	ONE METROTECH CENTER
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	14020
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL This spill case was reassigned from DEC (Sigona) to Rommel on 01/07/2004. Per Bart Polozzitti of Keyspan(516-545-5511), major renovations have occurred at the site. The tank may have been removed, he will forward relevant information when gathered. 01/02/07-Zhune got an e-mail from Bart Polozzitti requesting additional time to get the information. He said hopefully he will get it by 02/17/07. Bart Polozzitti cell # 646-2350403 01/09/07 Bart sent the information a tightness test report from Tanknology Corp. and a letter is included. The letter state the following: The subject underground storage tank (361A)located at 287 Maspeth Ave. Brooklyn, New York was tightness tested unsuccessfully on january 7, 1993. The other three fuel thanks on the same facility (Nos. 363, 364 &365) were tested tight on the same day. After repairing the vent connections causing the ullage leak above the level of product, the tank was retested on January 25, 1993 and passed. There was no release at any time to the surrounding environment. Spill Closed "
Remarks:	"EIR"

All TTF:

Facility ID:	9211562
Spill Number:	9211562
Spill Tank Test:	1541042
Site ID:	181619
Tank Number:	Not reported
Tank Size:	0
Material:	0009
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	181619
Operable Unit ID:	978534
Operable Unit:	01
Material ID:	404952
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G

GREENPOINT (Continued) **S104787368**

Recovered: .00
Oxygenate: Not reported

MOSF:
Name: GREENPOINT ENERGY FACILITY
Address: 287 MASPETH AVENUE
City,State,Zip: BROOKLYN, NY 11211
Facility ID: 2-2340
Program Type: MOSF
Tank Status: Unregulated/Closed
Expiration Date: Not reported
Dec Region: 2
UTMX: 590195.67868
UTMY: 4507995.25372

TANKS:
Name: NATIONAL GRID GREENPOINT SERVICE CENTER
Address: 287 MASPETH AVENUE
City,State,Zip: BROOKLYN, NY 11211
Facility Id: 2-306398
Region: STATE
DEC Region: 2
Site Status: Active
Program Type: PBS
Expiration Date: 07/14/2022
UTM X: 590235.61396
UTM Y: 4508095.73908

VCP:
Name: GREENPOINT
Address: 287 MASPETH AVENUE
City,State,Zip: BROOKLYN, NY 11211
Program Type: VCP
Site Code: 57149
HW Code: V00631
Site Class: A
SWIS: 2401
Region: 2
Town: New York City
Acres: 2.000
Date Record Added: 01/16/2003
Date Record Updated: 06/30/2009
Updated By: GWCROSS
Site Description: " The Greenpoint Energy Center is located in the Greenpoint section of Brooklyn, New York. The surrounding area is dominated by industrial and commercial uses with a limited residential area northwest of the the site. "
Env Problem: "The site is impacted by MGP residuals. Coal tar is present at the site. KeySpan has proposed to remediate the most accessible contamination and leave the remaining contamination in place. The proposed remedy is under review by the department."
Health Problem: "Public exposures to wastes in soil and groundwater at the site are unlikely since access to the site is restricted. Potential impacts from soil vapors need to be evaluated. Potential exposures to seepage from the site in the adjacent Newtown Creek are unknown. Eating of

GREENPOINT (Continued) **S104787368**

fish and shellfish from Newtown Creek is restricted based on fish advisories for the East River, which apply to Newtown Creek as a tributary."

Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	6
Sub Type:	ZZZ
Owner Name:	Not reported
Owner Company:	KEYSPAN ENERGY DELIVERY - NY
Owner Address:	ONE METROTECH CENTER
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11201
Owner Country:	United States of America
Own Op:	1
Sub Type:	ZZZ
Owner Name:	Not reported
Owner Company:	KEYSPAN ENERGY DELIVERY - NY
Owner Address:	ONE METROTECH CENTER
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11201
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	9009058
Cross Ref Type Code:	01
Cross Ref Type:	Spill No.
Record Added Date:	2003-01-16 09:45:00
Record Updated:	2003-01-16 09:46:00
Updated By:	brhumphr
Crossref ID:	9305107
Cross Ref Type Code:	01
Cross Ref Type:	Spill No.
Record Added Date:	2003-01-16 09:46:00
Record Updated:	2003-01-16 09:46:00
Updated By:	brhumphr

BROWNFIELDS:

Name:	K - GREENPOINT MGP - ENERGY CENTER
Address:	287 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Program:	BCP
Site Code:	57389
Acres:	119.000
HW Code:	C224052
SWIS:	2401

GREENPOINT (Continued) **S104787368**

Town:	New York City
Record Added Date:	04/30/2004
Record Updated Date:	12/07/2009
Update By:	MOBARRIE
Site Description:	"See Site 224052"
Env Problem:	""
Health Problem:	""
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	1
Sub Type:	E
Owner Name:	Not reported
Owner Company:	KEYSPAN
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	NY
Owner Country:	Unknown
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

SPILLS:

Name:	KEY SPAN
Address:	287 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0004653 / 2003-02-24
Facility ID:	0004653
Facility Type:	ER
DER Facility ID:	102793
Site ID:	181394
DEC Region:	2
Spill Cause:	Deliberate
Spill Class:	B3
SWIS:	2401
Spill Date:	2000-07-18
Investigator:	SACCACIO
Referred To:	Not reported
Reported to Dept:	2000-07-18
CID:	211
Water Affected:	Not reported

GREENPOINT (Continued) **S104787368**

Spill Source:	Commercial Vehicle
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2000-07-18
Spill Record Last Update:	2003-02-24
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	JOHN TUFFARELLI
DEC Memo:	""
Remarks:	"CALLER STATES PRIVATE TRACTOR TRAILER OWNERS MAKE REPAIR TO THEIR VEHICLES IN THE STREET AND THE RESIDUAL FUEL IS SPILLED ON STREET AND THERE IS NO CLEAN UP "

All Materials:

Site ID:	181394
Operable Unit ID:	825775
Operable Unit:	01
Material ID:	549386
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	GREENPOINT KEY SPAN
Address:	287 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0303442 / 2003-07-09
Facility ID:	0303442
Facility Type:	ER
DER Facility ID:	102793
Site ID:	181395
DEC Region:	2
Spill Cause:	Human Error
Spill Class:	C4
SWIS:	2401
Spill Date:	2003-07-02
Investigator:	JXZHAO
Referred To:	Not reported
Reported to Dept:	2003-07-02
CID:	199
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported

GREENPOINT (Continued) **S104787368**

Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2003-07-02
Spill Record Last Update:	2003-08-08
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	BART POLIZZOTTI
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHAO "
Remarks:	"contractor cleaning out drain accidentally dumped approx 2 yds of oily sludge type materal on ground at location - clean up crew enroute"

All Materials:

Site ID:	181395
Operable Unit ID:	870549
Operable Unit:	01
Material ID:	504309
Material Code:	0058A
Material Name:	sludge
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	BROOKLYN UNION
Address:	287 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9714234 / 1998-03-31
Facility ID:	9714234
Facility Type:	ER
DER Facility ID:	102793
Site ID:	181396
DEC Region:	2
Spill Cause:	Other
Spill Class:	C4
SWIS:	2401
Spill Date:	1998-03-24
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1998-03-24
CID:	211
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1998-03-24

GREENPOINT (Continued) **S104787368**

Spill Record Last Update:	1998-05-22
Spiller Name:	MARY CASEY
Spiller Company:	BROOKLYN UNION
Spiller Address:	287 MASPETH AV
Spiller Company:	001
Contact Name:	MARY CASEY
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE CLEANED BY RP. "
Remarks:	"DRUM LEAKED CAUSING SPILL ONTO SOIL - SOIL HAS BEEN EXCAVATED"

All Materials:

Site ID:	181396
Operable Unit ID:	1060065
Operable Unit:	01
Material ID:	325205
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	5.00
Oxygenate:	Not reported

Name:	DRUM RUN
Address:	287 MASPETH AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0908872 / 2009-12-09
Facility ID:	0908872
Facility Type:	ER
DER Facility ID:	370502
Site ID:	421533
DEC Region:	2
Spill Cause:	Abandoned Drums
Spill Class:	Not reported
SWIS:	2401
Spill Date:	2009-11-07
Investigator:	HRAHMED
Referred To:	Not reported
Reported to Dept:	2009-11-07
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-11-07
Spill Record Last Update:	2009-12-09
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	KAKEEMA

GREENPOINT (Continued) **S104787368**

DEC Memo: "12/09/09-HRAHMED-One Drum of oil was vacuumed up during DRUM RUN on 12/04/09. DEP and Sanitation were notified. This case is closed. "
Remarks: "1238 THE CALLER ADVISED THE DRUM WAS LABELED BY DEP AND THEY ARE AWAITING DEC TO PICKUP THE DRUM."

All Materials:
Site ID: 421533
Operable Unit ID: 1177420
Operable Unit: 01
Material ID: 2170210
Material Code: 0063A
Material Name: unknown hazardous material
Case No.: Not reported
Material FA: Hazardous Material
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Oxygenate: Not reported

Name: ROADWAY
Address: 287 MASPETH AVENUE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 0506134 / 2005-08-18
Facility ID: 0506134
Facility Type: ER
DER Facility ID: 102793
Site ID: 351275
DEC Region: 2
Spill Cause: Other
Spill Class: Not reported
SWIS: 2401
Spill Date: 2005-08-18
Investigator: JBVOUGHT
Referred To: Not reported
Reported to Dept: 2005-08-18
CID: 409
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Local Agency
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2005-08-18
Spill Record Last Update: 2005-08-18
Spiller Name: UNKNOWN
Spiller Company: Unknown
Spiller Address: UNKNOWN
Spiller Company: 999
Contact Name: ED MILLER
DEC Memo: "8/18/05-Vought-Called Ed and NYFD and NYPD left scene. FDNY put sand around pooled oil. NO responsible parties seen. FDNY diked oil. Pool is near gutter and spill originated from the middle of the street. Pooled oil is 3'x3'. FDNY contact is Captain Horton (Ladder 146) and Captain Villendahl (Engine 206). No sewers or drains affected and DEP

GREENPOINT (Continued) **S104787368**

was contacted. Vought called Sanitation Operations and they were previously called and are on their way. Spill closed by Vought."
Remarks: "YOU CAN SEE THE TRAIL OF MOTOR OIL ON THE ROADWAY. CLEAN UP IS NOT IN PROCESS. NOT THEIR RESPOSIBILY. ED CELL #917-731-8543."

All Materials:
Site ID: 351275
Operable Unit ID: 1108800
Operable Unit: 01
Material ID: 2098772
Material Code: 0015
Material Name: motor oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 25.00
Units: G
Recovered: .00
Oxygenate: Not reported

Name: DRUM RUN
Address: 287 MASPETH AVE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 0908424 / 2009-11-06
Facility ID: 0908424
Facility Type: ER
DER Facility ID: 370033
Site ID: 421024
DEC Region: 2
Spill Cause: Abandoned Drums
Spill Class: C4
SWIS: 2401
Spill Date: 2009-10-27
Investigator: HRAHMED
Referred To: Not reported
Reported to Dept: 2009-10-27
CID: Not reported
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2009-10-27
Spill Record Last Update: 2009-11-06
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller Company: 999
Contact Name: JOE SLEEM
DEC Memo: "11/06/09-HRAHMED-one 50 gal drum was found and emptied during drum run on 11/06/09. DEP and Sanitation were notified. This case is closed. "
Remarks: "55Gal drum, half full/not leaking"

GREENPOINT (Continued) **S104787368**

All Materials:

Site ID:	421024
Operable Unit ID:	1176958
Operable Unit:	01
Material ID:	2169669
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	22.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

Name:	KEYSPAN COMPLEX
Address:	287 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0413650 / 2005-04-04
Facility ID:	0413650
Facility Type:	ER
DER Facility ID:	102793
Site ID:	342804
DEC Region:	2
Spill Cause:	Human Error
Spill Class:	C4
SWIS:	2401
Spill Date:	2005-03-31
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2005-03-31
CID:	444
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2005-03-31
Spill Record Last Update:	2005-04-04
Spiller Name:	ED MILLER
Spiller Company:	KEYSPAN COMPLEX
Spiller Address:	287 MASBETH AVE
Spiller Company:	001
Contact Name:	ED MILLER
DEC Memo:	"minor spill - closed"
Remarks:	"10 GALLONS OF AGATINE PARTS CLEANER: WHEN MOVING A DRUM WITH A FORK LIFT, THE DRIVER PUT TEH FORK THROUGH THE DRUM: IN PROCESS OF BEING CLEANED UP:"

Name:	SUBSTATION
Address:	287 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0310061 / 2003-12-17

GREENPOINT (Continued) **S104787368**

Facility ID:	0310061
Facility Type:	ER
DER Facility ID:	102793
Site ID:	94159
DEC Region:	2
Spill Cause:	Other
Spill Class:	C3
SWIS:	2401
Spill Date:	2003-11-26
Investigator:	CESAWYER
Referred To:	Not reported
Reported to Dept:	2003-11-26
CID:	403
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	2003-12-17
Spiller Name:	MIKE RUSSO
Spiller Company:	SUBSTATION
Spiller Address:	287MASPETH AVE.
Spiller Company:	001
Contact Name:	MIKE RUSSO
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SAWYER 12/11/03 1038 Hrs - Sawyer - Talked to Rob Lowe and Bart Polozotti (516) 545-5511 of Keyspan. They said it was taken care of in house. One of the hazmat personnel, an Eddie will get back to me with disposal information. Closed."
Remarks:	"1-3 gallons spilled out at a substation and all of it was cleaned up"
	Not reported

All Materials:

Site ID:	94159
Operable Unit ID:	877718
Operable Unit:	01
Material ID:	499002
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	SOIL
Address:	287 MASPETH AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1701762 / 2018-08-15
Facility ID:	1701762
Facility Type:	ER

GREENPOINT (Continued) **S104787368**

DER Facility ID:	394939
Site ID:	548872
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Spill Date:	2017-05-22
Investigator:	vszhune
Referred To:	Not reported
Reported to Dept:	2017-05-23
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2017-05-23
Spill Record Last Update:	2018-08-15
Spiller Name:	BRITTANY
Spiller Company:	NATIONAL GRID
Spiller Address:	287 MASPETH AVE
Spiller Company:	999
Contact Name:	BRITTANY
DEC Memo:	"05/23/17-Hiralkumar Patel. 1:17 PM:- spoke with Brittany. they are removing two USTs: one 4,000 gal gasoline and one 1,000 gal diesel UST. during removal of diesel tank, crew noted some odors and upto 100 ppm on PID in soil. the tanks were located on concrete pad at 9 ft bg. crew has removed concrete pad and noted groundwater at bottom of excavation at approx. 10 ft bg. no sheen or product noted on groundwater. D&B will remove tank piping and dispenser islands and will collect endpoint soil and groundwater samples. two new tanks will be installed at the same location. Brittany Gaddy D&B Engineering and Architects, P.C. Ph. (516) 364-9890 Ext. 3439 email: bgaddy@db-eng.com National Grid **site operator** 175 East Old Country Road Hicksville, NY 11801 Attn.: Michael Lauro Environmental Engineering Ph. (516) 545-2562 email: michael.lauro@nationalgrid.com 1:39 PM:- sent letter to Mr. Lauro requiring submission of spill cleanup report by the end of 06/30/17. letter emailed to Mr. Lauro and Brittany. case assigned to DEC Zhune. 8/1/17- Brittany email-As discussed, attached to this email is analytical data, tables and an end point sample location map for NYSDEC review for Spill No. 1701762. Below is a detailed summary of the work that is taking place during the removal and installation of two USTs at the National Grid Greenpoint Energy Center, located at 287 Maspeth Avenue in Brooklyn. National Grid is in the process of removing a 4,000-gallon gasoline UST and a 1,000-gallon diesel UST. Upon removal of the USTs, the Contractor will install 27 concrete filled piles, pour a bottom slab and install two new 10,000-gallon USTs in the same location. Existing piping will be removed after the new tanks are in place and the excavation backfilled. End point samples will also be collected for piping excavation as requested by DEC. On May 23, 2017 during excavation related to existing tank removal, some soils were identified that appeared to be impacted due to elevated PID readings

GREENPOINT (Continued) **S104787368**

and a diesel odor. D&B notified the NYSDEC of a historical petroleum release at the site and a spill case initiated. Soil with elevated PID readings was segregated. Upon removal of the USTs, 14 end point samples were collected and analyzed for the tank excavation. Please see attached for a site plan of the existing fueling station that has been marked with approximate end point sample locations. Table 1, which provides a summary of the removed tanks is attached for reference. Table 2, which provides a summary of PID Readings is also attached for reference. Analytical data related to the endpoint sampling indicates that all VOCs were non detect with the exception of sample GBN which has one exceedance. For sample GBN, benzene was detected at a concentration of 250 ug/kg which exceeds for unrestricted use. This concentration of benzene does not exceed for restricted industrial use. There were several SVOC exceedances for unrestricted and restricted use; however, the Site is known to contain historic fill. Soil borings taken from the area near the USTs show historic fill present up to 12-17 feet below grade.
Additionally, the National Grid Greenpoint Energy Center is a former MGP site and is adjoined by Newtown Creek, a designated Superfund site to the east. As the DEC has requested that the tank closure report include piping excavation endpoint samples, the report cannot be finalized until the new tank installation is complete. However, due to the results of the endpoint sampling below the old USTs, we are requesting NYSDEC review/approval of analytical data provided to close Spill No. 1701762 at this time. A groundwater sample was collected from the base of the former UST excavation. The groundwater sample indicate one VOC (1500 ug/lt Naphathalene)and multiple SVOCs exceedance their repective NYSDEC GWGS. Following the product piping, vent piping and dispensers island removal, five (5) soil sample were collected from those respective areas. All VOC conccentrations were determined to be below their respective SCO's limits. However, the two (2) samples analyzed via EPA Methos 8270, sample 2 and sample 4, exhibited concentrations of several SVOCs above their respective SCOs. On July 30, 2018 I received an email from John Miller and I spoke with him. The email stated that My name is John Miller and I am the NYSDEC project manager for Greenpoint MGP Site (224052). I was informed recently that National Grid is hoping to close out a spill at the site. My understanding is that any contamination that remains related to the spill would be address under the MPG program. I only just to heard of this issue last week, but after speaking with Grid it sounds like reasonable approach. I wanted to confirm with you whether you agree or not. Do you have any issues or concern?. Based on John Miller's email that any contamination that remains related to the spill would be addressed under the MPG program # 224052 this spill is closed. Spill closed. "

Remarks: "clean up is pending soil tested positive for materials pbs 2-306398"

All Materials:

Site ID:	548872
Operable Unit ID:	1296965
Operable Unit:	01
Material ID:	2303087
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	Not reported

GREENPOINT (Continued) **S104787368**

Recovered: Not reported
Oxygenate: Not reported

Name: BROOKLYN UNION GAS
Address: 287 MASPETH AVENUE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 9305107 / 2005-03-28
Facility ID: 9305107
Facility Type: ER
DER Facility ID: 102793
Site ID: 118274
DEC Region: 2
Spill Cause: Other
Spill Class: C3
SWIS: 2401
Spill Date: 1993-07-13
Investigator: JMROMMEL
Referred To: Not reported
Reported to Dept: 1993-07-23
CID: Not reported
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1993-07-26
Spill Record Last Update: 2005-03-28
Spiller Name: Not reported
Spiller Company: BROOKLYN UNION GAS
Spiller Address: Not reported
Spiller Company: 001
Contact Name: Not reported
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL / / : CONTAMINATION FOUND. INVESTIGATING. 10/10/95: This is additional information about material spilled from the translation of the old spill file: TANK REMOVAL. 4/12/04-Vought-Spill transferred from Tibbe to Rommel as per Rommel. 3/28/05 - spill closed, refer to 9211562 for tracking. KST"
Remarks: "TANK REMOVAL - WAIT FOR RESULTS."

All Materials:
Site ID: 118274
Operable Unit ID: 986690
Operable Unit: 01
Material ID: 567298
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: L
Recovered: .00
Oxygenate: Not reported

GREENPOINT (Continued) **S104787368**

Name:	NAT GRID GREEN POINT FACILITY
Address:	287 MASPETH AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1006581 / 2010-09-17
Facility ID:	1006581
Facility Type:	ER
DER Facility ID:	394939
Site ID:	439941
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	2401
Spill Date:	2010-09-17
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2010-09-17
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2010-09-17
Spill Record Last Update:	2010-09-17
Spiller Name:	Not reported
Spiller Company:	NAT GRID
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	MARTIN BRUCELLA
DEC Memo:	""
Remarks:	"APPROX 25-30 GALLONS OF GAS MAIN DRIP WATER SPILLED TO SOIL/ASPHALT AND GRAVEL. CLEANUP IN PROGRESS."

All Materials:

Site ID:	439941
Operable Unit ID:	1190570
Operable Unit:	01
Material ID:	2185598
Material Code:	9999
Material Name:	other - GAS MAIN DRIP WATER
Case No.:	Not reported
Material FA:	Other
Quantity:	30.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

Click this hyperlink while viewing on your computer to access
7 additional NY SPILL: record(s) in the EDR Site Report.

NY MANIFEST:

Name:	KEYSPAN - LNG PLANT GREENPOINT

GREENPOINT (Continued) **S104787368**

Address:	287 MASPETH AVE
City,State,Zip:	BROOKLYN, NY 11211-0000
Country:	USA
EPA ID:	NYD006978795
Facility Status:	Not reported
Location Address 1:	287 MASPETH AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11211
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD006978795
Mailing Name:	KEYSPAN - LNG PLANT GREENPOINT
Mailing Contact:	AMY DROGALIS
Mailing Address 1:	175 E OLD COUNTRY RD
Mailing Address 2:	Not reported
Mailing City:	HICKSVILLE
Mailing State:	NY
Mailing Zip:	11801
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	9175600908

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	12/30/2014
Trans1 Recv Date:	12/30/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/07/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD006978795
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD980536593
TSDF ID 2:	Not reported
Manifest Tracking Number:	000806357VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141

GREENPOINT (Continued) **S104787368**

Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	600
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	2
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Waste Code:	Not reported
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	B007
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

AH216 **BUG, MASPETH GATE STATION** **NY HSWDS** **S108147014**
NNW **285 MASPETH AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY 11222**
0.360 mi.
1899 ft. **Site 6 of 7 in cluster AH**

Relative:
Higher

Actual:
14 ft.

HSWDS:

Facility ID:	Not reported
Region:	2
Facility Status:	Unknown
Owner Type:	Publ Utily
Owner:	Brooklyn Union Gas
Owner Address:	195 Montague Street
Owner Phone:	(718)403-3053
Operator Type:	Unknown
Operator:	Unknown
Operator:	Unknown
Operator Phone:	Unknown
EPA ID:	NYD980532220
Registry:	Not on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID:	Unknown
RCRA Permitted:	Unknown
Site Code:	Coal Gasification Plant
Owner City State:	Brooklyn
Operator City State:	Not reported
Quadrange:	Unknown
Latitude:	40 43 10 N
Longitude:	73 55 45 W
Acres:	0.00
Operator Date:	1981
Close Date:	Unknown
Completed:	PA
Active:	Unknown
PCB's Disposed:	Unknown
Pesticides Disposed:	No
Metals Disposed:	No
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	No

BUG, MASPETH GATE STATION (Continued) **S108147014**

Semi Volatile Organic Compounds Disposed:	No
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	None
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Environmental
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	Unknown
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Unknown
Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

AH217 **BKLYN UNION GAS /MASPETH GATE STA** **SEMS-ARCHIVE** **1003863866**
NNW **285 MASPETH AVE** **NYD980532220**
1/4-1/2 **BROOKLYN, NY 11222**
0.360 mi.
1899 ft. **Site 7 of 7 in cluster AH**

Relative:
Higher

Actual:
14 ft.

SEMS Archive:

Site ID:	0201996
EPA ID:	NYD980532220
Name:	BKLYN UNION GAS /MASPETH GATE STA
Address:	285 MASPETH AVE
Address 2:	Not reported
City,State,Zip:	BROOKLYN, NY 11222
Cong District:	12
FIPS Code:	36047
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	02
Site ID:	0201996
EPA ID:	NYD980532220
Site Name:	BKLYN UNION GAS /MASPETH GATE STA
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1986-09-24 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	02
Site ID:	0201996
EPA ID:	NYD980532220
Site Name:	BKLYN UNION GAS /MASPETH GATE STA
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1981-06-01 04:00:00
Finish Date:	1981-06-01 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	02
Site ID:	0201996
EPA ID:	NYD980532220
Site Name:	BKLYN UNION GAS /MASPETH GATE STA
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1

BKLYN UNION GAS /MASPETH GATE STA (Continued) **1003863866**

Start Date: 1986-09-05 04:00:00
Finish Date: 1986-09-24 04:00:00
Qual: N
Current Action Lead: EPA Perf

AF218 **SCHOLES ST. STATION** **EDR MGP** **1008407899**
SW **SCHOLES ST 7 BOGART STS. MESSEROLE AND MORGAN AVE.** **N/A**
1/4-1/2 **BROOKLYN, NY 11206**
0.360 mi.
1901 ft. **Site 2 of 2 in cluster AF**

Relative: **Higher**
Actual: **17 ft.**

Manufactured Gas Plants:
No additional information available

AL219 **DITMAS OIL ASSOCIATES, INC.** **NY MOSF UST** **S103275710**
North **364 MASPETH AVENUE** **NY AST** **N/A**
1/4-1/2 **BROOKLYN, NY 11211** **NY CBS AST**
0.361 mi. **NY MOSF AST**
1908 ft. **Site 1 of 3 in cluster AL** **NY AIRS**

Relative: **Lower**
Actual: **12 ft.**

MOSF UST:

Id/Status:	2-1340 / ACTIVE FACILITY
SWIS Code:	61
Facility Town:	NEW YORK CITY
Contact Phone:	(718) 782-4200
Emergency Contact:	ROBERTO PORCELLI
Emergency Telephone:	(718) 782-4200
CBS Number:	Not reported
SPDES Num:	0-005789
Total Tanks:	19
Total Capacity:	3515318
Avg Throughput:	560000
License Stat:	1
Facility Type:	STORAGE TERMINAL/PETROLEUM DISTRIBUTOR
Prod Xfer Options:	AD
Expiration Date:	03/31/2002
Applic Rcvd:	01/05/2001
Operator:	ROBERTO PORCELLI
Owner Name:	MALU PROPERTIES, INC.
Owner Address:	364 MASPETH AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11211-
Owner Telephone:	(718) 782-4200
Owner Type:	Corporate/Commercial
Owner Status:	2
Owner Mark:	Second Owner
Mail To Name:	DITMAS OIL ASSOCIATES, INC.
Mail To Address:	364 MASPETH AVENUE
Mail To Address 2:	Not reported
Mail City,St,Zip:	BROOKLYN, NY 11211-
Mail To Contact:	ROBERTO PORCELLI
Mail To Telephone:	(718) 782-4200
Legal Agent Name:	FRIEDLAND, LEIFFER, ROBBINS, LLP
Legal Agent Address:	233 BROADWAY

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Legal Agent City,St,Zip:	NEW YORK, NY 10274-
Date Filed:	Not reported
Latitude:	40|43|05
Longitude:	73|55|40

Tank ID:	001
Tank Location:	UNDERGROUND
Install Date:	01/70
Capacity (Gal):	4000
Product:	DIESEL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	13
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	Impressed Current
Second Contain:	Other
Leak Detection:	Other
Overfill Protection:	53
Dispenser:	Suction
Test Date:	12/98
Date Closed:	Not reported
Status of Data:	Minor Errors
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	002
Tank Location:	UNDERGROUND
Install Date:	04/76
Capacity (Gal):	2000
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	Impressed Current
Second Contain:	Other
Leak Detection:	None
Overfill Protection:	53
Dispenser:	Suction
Test Date:	12/98
Date Closed:	Not reported
Status of Data:	Minor Errors

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	003
Tank Location:	UNDERGROUND
Install Date:	04/76
Capacity (Gal):	1080
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Contain:	Other
Leak Detection:	None
Overfill Protection:	None
Dispenser:	Suction
Test Date:	12/98
Date Closed:	Not reported
Status of Data:	Minor Errors
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	004
Tank Location:	UNDERGROUND
Install Date:	02/83
Capacity (Gal):	1080
Product:	UNKNOWN
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Second Contain:	Other
Leak Detection:	None
Overfill Protection:	None
Dispenser:	Gravity
Test Date:	02/99
Date Closed:	Not reported
Status of Data:	Minor Errors
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	005
Tank Location:	UNDERGROUND
Install Date:	11/68
Capacity (Gal):	1080
Product:	UNKNOWN
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Contain:	Other
Leak Detection:	None
Overfill Protection:	None
Dispenser:	Gravity
Test Date:	12/98
Date Closed:	Not reported
Status of Data:	Minor Errors
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	108
Tank Location:	UNDERGROUND
Install Date:	12/65
Capacity (Gal):	244964
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	Temporarily Out Of Service

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	8
Leak Detection:	Groundwater Well
Overfill Protection:	23
Dispenser:	Submersible
Test Date:	08/98
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	109
Tank Location:	UNDERGROUND
Install Date:	12/65
Capacity (Gal):	245101
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	8
Leak Detection:	Groundwater Well
Overfill Protection:	23
Dispenser:	Submersible
Test Date:	08/98
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Tank ID:	110
Tank Location:	UNDERGROUND
Install Date:	12/65
Capacity (Gal):	288643
Product:	DIESEL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	8
Leak Detection:	Groundwater Well
Overfill Protection:	23
Dispenser:	Submersible
Test Date:	08/98
Date Closed:	Not reported
Status of Data:	Complete
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

AST:

Name:	DITMAS OIL ASSOCIATES, INC.
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-000328
Program Type:	CBS
UTM X:	590476.38524
UTM Y:	4508036.27253
Expiration Date:	N/A
Site Type:	Storage Terminal/Petroleum Distributor

Tank Info:

Tank Number:	10
Tank Id:	192184
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	07/01/1996
Capacity Gallons:	12500
Tightness Test Method:	NN

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	09/01/2004
Register:	True
Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

CBS AST:

CBS Number:	2-000328
ICS Number:	Not reported
PBS Number:	Not reported
MOSF Number:	2-1340
SPDES Number:	-
Facility Status:	IN SERVICE
Facility Type:	B
Telephone:	(718) 782-4200
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	03/23/2003
Total Capacity of All Active Tanks(gal):	12500
Operator:	ROBERTO PORCELLI
Emergency Contact:	ROBERTO PORCELLI
Emergency Phone:	(718) 782-4200
Owner Name:	MALU PROPERTIES, INC.
Owner Address:	364 MASPETH AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11211
Owner Telephone:	(718) 782-4200
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	DITMAS OIL ASSOCIATION
Mail Contact Addr:	364 MASPETH AVENUE
Mail Contact Addr2:	Not reported
Mail Contact Contact:	MR. ROBERTO PORCELLI
Mail Contact City,St,Zip:	BROOKLYN, NY 11211
Mail Phone:	(718) 782-4200

Tank Id:	10
CAS Number:	1330207
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	07/96
Tank Closed:	Not reported
Capacity (Gal):	12500
Chemical:	Xylene (mixed)
Tank Location:	Indoors, Belowground
Tank Type:	Steel/carbon steel
Total Tanks:	1
Tank Secret:	False
Tank Secondary Containment:	Vault
Tank Error Status:	No Missing Data
Date Entered:	01/21/1997
Certified Date:	01/24/2001
Substance:	More than one Hazardous Substance on DEC List
Internal Protection:	Epoxy Liner
External Protection:	Painted/Asphalt Coating
Pipe Location:	Aboveground

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Pipe Flag:	Painted/Asphalt Coating
Leak Detection:	None
Overfill Protection:	24
Haz Percent:	52
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	40|43|05 / 73|55|40
Is Updated:	False
Renew Date:	Not reported
Is It There:	False
Delinquent:	False
Date Expired:	Not reported
Owner Mark:	2
Certificate Needs to be Printed:	40|43|05 / 73|55|40
Fiscal Amt for Registration Fee Correct:	40|43|05 / 73|55|40
Renewal Has Been Printed for Facility:	40|43|05 / 73|55|40
Pre-Printed Renewal App Last Printed:	40|43|05 / 73|55|40

MOSF AST:

MOSF Number:	2-1340
SWIS Code:	61
Facility Town:	NEW YORK CITY
Facility Phone:	(718) 782-4200
Emergency Contact Name:	ROBERTO PORCELLI
Emergency Contact Phone:	(718) 782-4200
Total Tanks:	19
Total Capacity:	3515318
Daily Throughput:	560000
License Status:	1
Facility Type:	STORAGE TERMINAL/PETROLEUM DISTRIBUTOR
Product Transfer Operation:	AD
Facility Status:	IN SERVICE
Operator Name:	ROBERTO PORCELLI
Owner Name:	MALU PROPERTIES, INC.
Owner Address:	364 MASPETH AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11211-
Owner Phone:	(718) 782-4200
Owner Type:	Corporate/Commercial
Owner Status:	2
Owner Mark:	Second Owner
Mailing Name:	DITMAS OIL ASSOCIATES, INC.
Mailing Address:	364 MASPETH AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11211-
Mailing Contact:	ROBERTO PORCELLI
Mailing Phone:	(718) 782-4200
Legal Agent Name:	FRIEDLAND, LEIFFER, ROBBINS, LLP
Legal Agent Address:	233 BROADWAY
Legal Agent City,St,Zip:	NEW YORK, NY 10274-
LIC Expires:	03/31/2002

Tank ID:	010
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Install Date:	07/96
Product:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	CATHODIC PROTECTION
Pipe Location:	Not reported
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Secondary Containment:	Concrete Dike
Leak Detection:	Groundwater Well
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	07/96
Date Closed:	12/00
Status of Data:	Minor Errors
Capacity (gal):	14500
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	Temporarily Out-of-Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	10
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Install Date:	07/96
Product:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Secondary Containment:	Concrete Dike
Leak Detection:	Groundwater Well
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	07/96
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	14500
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	Temporarily Out-of-Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	101
Tank Location:	ABOVEGROUND
Install Date:	12/65
Product:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Secondary Containment:	Concrete Dike
Leak Detection:	35
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	11/00
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	97812
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	Temporarily Out-of-Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	102
Tank Location:	ABOVEGROUND
Install Date:	12/65
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Tank Internal:	Epoxy Liner
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Secondary Containment:	Concrete Dike
Leak Detection:	35
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	11/00
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	97812
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	Temporarily Out-of-Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	103
Tank Location:	ABOVEGROUND
Install Date:	12/65
Product:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Secondary Containment:	Concrete Dike
Leak Detection:	35
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	10/97
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	88379
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	Temporarily Out-of-Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	104
Tank Location:	ABOVEGROUND
Install Date:	12/65
Product:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Fiberglass Liner (FRP
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Secondary Containment:	Concrete Dike
Leak Detection:	Groundwater Well
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	11/97
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	177968
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	Temporarily Out-of-Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	105
Tank Location:	ABOVEGROUND
Install Date:	12/65
Product:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Secondary Containment:	Concrete Dike
Leak Detection:	35
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	11/00
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	194819
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	Temporarily Out-of-Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	106
Tank Location:	ABOVEGROUND
Install Date:	12/66
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	CATHODIC PROTECTION/PAINTED [e.g. asphaltic]
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Secondary Containment:	Concrete Dike
Leak Detection:	93
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	Not reported
Date Closed:	00/00
Status of Data:	Complete
Capacity (gal):	98994
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Tank Status:	Temporarily Out-of-Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	107
Tank Location:	ABOVEGROUND
Install Date:	12/69
Product:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Secondary Containment:	78
Leak Detection:	Groundwater Well
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	08/92
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	448609
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	Temporarily Out-of-Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	111
Tank Location:	ABOVEGROUND
Install Date:	12/69
Product:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	CATHODIC PROTECTION
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Secondary Containment:	78
Leak Detection:	Groundwater Well
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	11/97
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	452503
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Tank Status:	Temporarily Out-of-Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Click this hyperlink while viewing on your computer to access
3 additional NY_AST_MOS: record(s) in the EDR Site Report.

AIRS:

Name:	DITMAS TERMINAL - 364 MASPETH AVENUE
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
DECID:	2610100163
Process ID:	010EI
Latitude:	Not reported
Longitude:	Not reported
FIPS Code:	36047
Auth Type Code:	Not reported
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	0.00566579
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	U00103
Contamination:	PM25-PRI
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	TON
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	0.08804
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	U00103
Contamination:	SO2

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	TON
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	0.00736999
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	U00103
Contamination:	PM10-PRI
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	TON
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	0.0031
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	U00103
Contamination:	7440473
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	LB
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	0.0001
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	U00103
Contamination:	7439965
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	LB
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	0.0076
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	U00103
Contamination:	7439921
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	LB
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	13.125
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	EI0001
Contamination:	VOC
EPA Control Code:	Not reported
Control Eff:	Not reported

DITMAS OIL ASSOCIATES, INC. (Continued) **S103275710**

Unit:	TON
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	7.1903652
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	1TANKS
Contamination:	VOC
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	TON
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	4.44000005
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	1TANKS
Contamination:	1330207
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	LB
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	10.9300003
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	1TANKS
Contamination:	108883
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	LB
Permit Status:	Not reported
Auth Status Code:	Not reported
Emissions:	3350
Issue date:	Not reported
Expired Date:	Not reported
Emission Unit date:	1RACKS
Contamination:	1634044
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	LB

Click this hyperlink while viewing on your computer to access
24 additional NY AIRS: record(s) in the EDR Site Report.

AL220 **OFFICE BUILDING** **NY LTANKS** **S127481837**
North **364 MASPETH AVE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.361 mi.
1908 ft. **Site 2 of 3 in cluster AL**

Relative: **Lower**

Actual: **12 ft.**

LTANKS:

Name:	OFFICE BUILDING
Address:	364 MASPETH AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	2100155 / Not Reported
Facility ID:	2100155
Site ID:	617823
Spill Date:	2021-04-06
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Not reported
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	HSSEKHON
Referred To:	Not reported
Reported to Dept:	2021-04-06
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	2021-04-06
Spill Record Last Update:	2021-07-12
Spiller Name:	Not reported
Spiller Company:	CASATERIA OIL CORP
Spiller Address:	Not reported
Spiller County:	999
Spiller Contact:	WILLIAM KLEIN
Spiller Phone:	(718) 762-5200
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	565539
DEC Memo:	"4/7/21-lin- PBS# 2-610575 2,000 #2 fuel oil UST. Cathodic test failure. Contractor will replace anode to make the repair. No spill. They tested the tank system about a month ago and it passed. As part of the regulation, they will conduct another tightness test after the repair is made. The contractor will forward the tightness test results to the case manager when its available. Contractor Info: William Kelin 718-762-5200 (office) 917-807-1143 (cell) wrklein@franklincompany.com Property owner contact info: malu properties inc 275 Madison ave, 37th floor Ny, NY 10016 elmubarak dabo edabo@largavista.com agood@largavista.com 6/18 - Sekho n email send to RP & contractor to send updates. 6/25/21 - Sekhon email send to RP & contractor to send updates. Got email from Rp that they are evaluating proposals from contractor to remove tank. 7/12/21 - Sekhon Richard Levato Edabo@largavista.com Richard Levato Advanced Site Restoration 62 William Street New York NY 10005"
Remarks:	"Test failure no spill"

All Materials:

Site ID:	617823

OFFICE BUILDING (Continued) **S127481837**

Operable Unit ID:	1364985
Operable Unit:	01
Material ID:	2377451
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

AL221 **DITMAS OIL ASSOCIATES, INC.** **NY LTANKS** **S103827207**
North **364 MASPETH AVENUE** **NY CBS** **N/A**
1/4-1/2 **BROOKLYN, NY 11211** **NY MOSF**
0.361 mi. **NY Spills**
1908 ft. **Site 3 of 3 in cluster AL** **NY SPDES**

Relative: **Lower**

Actual: **12 ft.**

LTANKS:

Name:	IN PARKING LOT
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0514281 / 2006-04-24
Facility ID:	0514281
Site ID:	360969
Spill Date:	2006-03-14
Spill Cause:	Tank Overfill
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	HRPATEL
Referred To:	Not reported
Reported to Dept:	2006-03-14
CID:	444
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2006-03-14
Spill Record Last Update:	2006-04-24
Spiller Name:	JIM CAREY
Spiller Company:	IN PARKING LOT
Spiller Address:	364 MASPETCH AVE
Spiller County:	001
Spiller Contact:	JIM CAREY
Spiller Phone:	(646) 772-5889
Spiller Extention:	CELL
DEC Region:	2
DER Facility ID:	102823
DEC Memo:	"03/14/06-Hiralkumar Patel. Spoke with Jim at Metro Fuel. property has 2000 gal AST. when driver read gauge he found that he could deliver more than 1000 gal. but after delivering 899 gal, tank overfilled and spilled on concrete floor. driver is doing initial

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

cleanup. cleanup crew is already left for site. Jim is also goint to site and will call back once he reach on site regarding concrete condition and cleaning process. the measuring gauge is not working properly. Received call from Jim and as per him, oil spilled on solid concrete without affecting soil or drain/sewer. all cleaned up. as i couldn't find PBS registration, i got owner's information from Jim. Organization Name: US Tow INc. Contact Person: Joe Lopez / Randy Number: (718) 246-5566 FAX: (718) 802-1988 called at US Tow and Ms. Randy told me that they rent this property at 364 Maspeth Ave. she doesn't have any idea about PBS. Left message for Mr. Mike who is owner. Received call from Ms. Randy and as they don't have their tank registered, she was asking for registration forms. Letter sent out requesting tank registration and replacement/repairment of faulty guage. faxed to US Tow Inc. 04/21/06-Hiralkumar Patel. Called at US Tow, but Ms. Randy will be back on Monday Apr. 24. 04/24/06-Hiralkumar Patel. Spoke with Ms. Randy at US Tow and she will mail the registration form soon. as the spill was cleaned on day of incident and no soil/groundwater/sewer/drain affected, case is closed."

Remarks: "STORAGE TANK OVERFILL AND IN PROCESS OF CLEANING UP"

All Materials:

Site ID:	360969
Operable Unit ID:	1118070
Operable Unit:	01
Material ID:	2108583
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

CBS:

Name:	DITMAS OIL ASSOCIATES, INC.
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
CBS Number:	2-000328
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	590476.38524
UTMY:	4508036.27253

MOSF:

Name:	DITMAS OIL ASSOCIATES, INC.
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Facility ID:	2-1340
Program Type:	MOSF
Tank Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

UTMX: 590561.18213
UTMY: 4508000.25067

SPILLS:

Name:	DITMAS OIL COMPANY
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9011585 / 1991-02-05
Facility ID:	9011585
Facility Type:	ER
DER Facility ID:	102823
Site ID:	118306
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	A1
SWIS:	2401
Spill Date:	1991-02-04
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1991-02-04
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Fire Department
Cleanup Ceased:	1991-02-05
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1991-02-11
Spill Record Last Update:	2003-09-19
Spiller Name:	ROBERTO PORTCELLI
Spiller Company:	DITMAS OIL COMAPNY'
Spiller Address:	364 MASPETH AVENUE
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"CAROLINA TRUCKING 414 MASPETH COMPLAINED OF GASOLINE ODORS,NYCFD HAZMAT & NYCDEP HAZMAT RESPONDED,OBSERVED AIR RELEASE FROM VENTS OF TANKS #108,109 &110,TOOK READINGS OF 29%LEL 10FT FROM VENTS"

All Materials:

Site ID:	118306
Operable Unit ID:	948604
Operable Unit:	01
Material ID:	428121
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

Name:	DITMAS OIL COMPANY
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9208027 / 1992-10-12
Facility ID:	9208027
Facility Type:	ER
DER Facility ID:	102823
Site ID:	118307
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B1
SWIS:	2401
Spill Date:	1992-10-12
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1992-10-12
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Citizen
Cleanup Ceased:	1992-10-12
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-10-15
Spill Record Last Update:	2003-09-19
Spiller Name:	ROBERTO PORCELLI
Spiller Company:	DITMAS OIL COMPANY
Spiller Address:	364 MASPETH AVENUE
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"Air complaint."

All Materials:

Site ID:	118307
Operable Unit ID:	974831
Operable Unit:	01
Material ID:	408634
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	DITMAS OIL COMPANY
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9006603 / 2017-02-15
Facility ID:	9006603
Facility Type:	ER
DER Facility ID:	102823

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

Site ID:	112706
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	A3
SWIS:	2401
Spill Date:	1990-09-15
Investigator:	VXBREVDO
Referred To:	Not reported
Reported to Dept:	1990-09-15
CID:	Not reported
Water Affected:	ENGLISH KILLS
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1990-10-30
Spill Record Last Update:	2017-02-15
Spiller Name:	OSCAR PORCELLI
Spiller Company:	DITMAS OIL COMPANY
Spiller Address:	364 MASPETH AVE
Spiller Company:	999
Contact Name:	Not reported
DEC Memo:	"02-21-12 - LZ The Fourth Quarter 2011 Status Report prepared by CEUS Engineering, P.C. is in eDocs. 11/30/11 - LZ The Third Quarter 2011 Status Report prepared by CEUS Engineering, P.C. is in eDocs. 9/23/11 - Austin - Spoke with Jim Quinn of DEC/DER in Albany. He indicated that the former BCF waste oil facility located at 360 Maspeth Ave. (next store to this Ditmas/Gaseteria site) had been cleaned suffciently of haz. waste contamination that it was being d-listed as a Superfund site. The remaining issue on the site was petroleum contamination (floating product). Gaseteria/Ditmas/Newtown Development LLC have taken title to the BCF property adjoining theirs, and have been exonerated of liability for the SSF cleanup, but were still liable for the oil spill cleanup as the new owners. The BCF project (originally under spill 3 9406807, assigned to Hale in Albany) will be coming back to the Region, and will be assigned along with this spill (9006603) to a Remediation Section (either Brevdo or Hussein) for remediation of both adjoining sites. Quinn will send down information on the discussions with Gaseteria, et. al. regarding their responsibilities in this matter. - end 09/06/11 - LZ Reviewed the Second Quarter 2011 Status Report (eDocs)describing the activities at the site. bioremediation, now temporarily suspended, is scheduled to be retested in the spring 2012. MW-21 that has been destroyed and MW-9R, located nearby, takes over function of MW-21. 07/20/11 - LZ The April 28, 2011 First Quarter Status report (eDocs) quartely report shows that free product appeared in 6 wells; the highest thickness of it was 0.21 foot. The next report is due August 15, 2011. 03/03/11 - LZ The February 14, 2011 RAWP (eDocs) has been approved by DEC letter dated 03/03/11 (eDocs), including quarterly well monitoring and quarterly submission of reports. 11/02/10 - LZ Has reviewed and approves a CEUS Engineering request for a 90-day extension to collect additional data, design a petroleum recovery system, and submit a revised remedial action work plan. The work plan

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

to be submitted by January 31, 2011. In eDocs is the October 29, 2010 Third Quarter 2010 report. 10/12/10 - LZ The July 30, 2010, quarterly report (eDocs) by CEUS Engineering, P.C., proposes installation of recovery wells south of MW-2 where free product still exists. After five wells are installed, vacuum truck extraction will be performed and its results analyze to determine whether to continue weekly vacuuming or to install a recovery system. 04/22/10 - LZ Staff reviewed the March 31, 2010 report(eDocs)prepared by CEUS Engineering, P.C. To improve the effectiveness of bioremediation, CEUS Engineering proposes the complete extraction of free product. Vacuum-enhanced product recovery will be conducted using temporary extraction points in the vicinity of MW-2 until free product is removed, while the bioremediation process is suspended. Bioremediation will resume in the fall of 2010, utilizing monthly bio-applications, and the process will be monitored by sampling performed quarterly. Staff approved the proposed modifications to product recovery and bioremediation operations as well as the proposed schedule of the future activities requiring that vacuum-enhanced product recovery must be conducted at least weekly. 02/12/10 - LZ John Rhodes (phone 646-465-2494), since his comany CEUS took over the project, requested an extension to submit the report by March 31, 2010. Request granted. 10/27/09 - LZ Reviewed the AST quarterly report (eDocs) that covers April - June 2009 activities. Monthly gauging were conducted in 17 onsite and offsite wells. Well MW-2 exhibited free product during every gauging (0.006 -0.07 foot). 09/16/09 - LZ E-mailed Chris Tomasello of AST, LLC requesting a 2nd quarter 2009 report be submitted by September 22th. In addition to previous reports, this report should include the amount of recovered product and all, listed in TAGM 4046, VOCs, SVOCs, and MTBE being analyzed (we spoke about this in April). 05/04/09 - LZ The May 1, 2009, Advanced Site Restoration Quarterly Status Report (eDocs) covers remedial activities from January to April 2009. The monitoring well network was gauged on January 6, February 6, and March 4, 2009, and sampled on April 13, 2009. Gauging was performed at MW-2 through MW-6, MW-8, MW-10, MW-16, MW-17, MW-19, and MW-21.The groundwater samples were analyzed for VOCs, including BTEX and MTBE. Total BTEX concentrations ranged from non-detected to 350 ug/l (MW-10). MTBE concentrations ranged from non-detected to 11 ug/l (MW-21). Concentration of BTEX in excess of applicable NYSDEC GWQS were detected in 3 groundwater samples collected during this groundwater sampling event. The next sampling event is scheduled for July, 2009. LNAPL was last detected on March 6, 2009 in MW-2 and was bailed out from this well. 05/04/09 - LZ The October-December 2008 quarterly report (eDocs) prepared by Advanced Site Restoration, indicates that 500 gallons of Bio Rem LLC H-10 were pumped monthly into the sit s bio-irrigation system. Since October 2006, total 53.5 gallons of LNAPL have been removed from the ground. Free product still exists in MW-2 and MW-17. Twelve wells (MW-2 through MW-6, MW-8, MW-10, MW-16, MW-17, and MW-19 through MW-21) were gauged on 10/01/08, 11/03/08, and 12/17/08. On October 1, 2008, monitoring wells MW-3 through MW-6, MW-8, MW-10, MW-16, and MW-19 were sampled: total BTEX concentration range was found from non-detected to 68 ug/l (MW-19); MTBE concentration range was found from non-detected to 9 ug/l(MW-5). 06/16/08 - LZ A report, dated April 2008, prepared by the ASR, provides data concerning remediation efforts and the level of current contamination at the site. From October 2006 to February 2008, 53.5 gallons of LNAPL has been extracted from groundwater. The ASR has

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

applied 30,000 gallons of bio solution-BioREm H-10. Total BTEX has decreased in all monitoring wells, except MW-2. Free product is still in MW-2 and MW-17. 08/08/06 -Zielinski A site visit and a meeting with Mr. Tomasello of ASR. Sent a letter to Mr. Tomasello((see eDocs) requesting installation of three additional wells, reinstallation of MW1, MW11, and W9. 07/18/06 - Zielinski A review of the July 2006 monthly montoring report received from Advanced Site Restoration, LLC,(ASR) indicates that at wells MW-2 and MW-6 concentraction of benzene and total BTEX concentration is relatively high. Results from other seven wells indicate low contamination of groundwater. In August, staff will visit the site. In August, ASR will submit a quarterly report regarding the status of remedation process at the site. 08/18/04 - Zielinski In its letter of August 18, 2004, the department requested that the delineation of petrolum contamination had to be performed by Ditmas Oil Association. In addition, a remedial action plan must be submitted by the facility. These documents have not been received by the department, a review of files on July 5, 2006, shows. 4/21/04 - This project is re-assigned to Zhao from Sigona. Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHAO This site spill cleanup has been consolidated under Spill No. 9006603. 09/15/90: SPILLER WILL DISPOSE OF SOIL PROPERLY & ASSURE WARNING SYSTEM IS IN PROPER WORKING ORDER, SPILL TO BE REFERRED TO MOSF COORDINATOR. DEC Sigona performed follow-up investigation and discovered groundwater contamination. Site is under a consent order to performed remediation of groundwater and tidal wetlands. 06/29/12 - THIS SPILL CASE HAS BEEN TRANSFERRED TO SECTION B ON 06/29/12 AS DISCUSSED WITH RANDY AUSTIN 07/31/2012 - V. Brevdo Received Second Quarter 2012 Status Report, dated July 20, 2012. Reviewed Report. The Ditmas Oil Terminal (the Site) was an independent petroleum products storage and distribution bulk terminal. The Site was located in an industrial area of Greenpoint, Brooklyn, adjacent to the English Kill, a part of Newtown Creek. The Site received various petroleum products from barges in the adjacent waterway and the Buckeye pipeline that ran through the Site. Fuel was stored in above and below ground storage tanks and then pumped into trucks through an underground piping system. Petroleum products stored included gasoline, kerosene, diesel, No. 2 Fuel Oil and Bunker C oil. A major spill in excess of 40,000 gallons of gasoline occurred on January 15, 1975 during the Gulf operation according to DEC and Coast Guard records. Tank Number 7, a 475,000 gallon storage tank, was overfilled causing gasoline to fill the surrounding (permeable) retaining dyke to a depth of eight feet. Gasoline was observed emerging from the sea wall at the English Kill. An estimated 1,000 gallons reached the English Kill where the fire department prevented the deployment of berms due to a fire hazard. Additional dissolved contaminants reached the English Kill as the result of water being added to the retaining dyke in an attempt to reduce the gasoline s flow into the ground. The Site was decommissioned between February 2004 and June 2005. Approximately twenty petroleum storage tanks were removed from service. (A 2000 gallon fuel oil Underground Storage Tank (UST) remained for heating the onsite office building.) Underground contamination was delineated. All tanks and underground piping were drained of their content, demolished and removed from the Site. The Site is now a motor vehicles impound lot operated by the NYC Marshal. Remediation of the Site has progressed since 2004 under the NYSDEC approved Facility Closure and Oil Spill Remedial Action Plan under the Order on Consent. In 2011 and to date in 2012,

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

approximately 25 gallons of relatively well separated product was recovered using skimmers and peristaltic pumps, and 62 gallons of emulsified product and oily water by bailing. Additional amounts were recovered during vacuum truck visits. Planned activities for the fourth quarter of 2012 include the following: Commencement of the bioremediation and induced oil recovery pilot test; Placement of the scavenger with groundwater pump in recovery well R-9; Continued Gauging and Quarterly testing in accordance with the approved Monitoring Plan; Commencement of Performance Monitoring of the bioremediation and oil recovery pilot test. V. Brevdo 11/09/2012 - Brevdo CEUS Engineering, P.C. (CEUS) submitted status Report for the former Ditmas Terminal. The following provides a Status Report in accordance with Consent Order R2?0272?97?12; the NYSDEC approved Facility Closure and Oil Spill Remedial Action Plan 1 October 2004 (RAP); the Remedial Action Work Plan Addendum and Fourth Quarter 2010 Status Report 8 February 2011 (RAWP Addendum); and the NYSDEC approval letters 18 August 2004, 5 November 2004, 22 April 2010, 5 January 2011 and 3 March 2011 for the former Ditmas Oil Terminal at 364 Maspeth Avenue, Brooklyn, NY (the Site). This Status Report has been prepared by CEUS Engineering, P.C. (CEUS) with field and data management assistance from Advanced Site Restoration, LLC (ASR). Product removal will continue using the skimmer with groundwater depression, a standalone skimmer, a peristaltic pump and bailing.V. Brevdo 07/29/2013 - V. Brevdo E-mail from consultant wiht attached 2nd Quarter 2013 monitoring report. Vadim, Attached is the 2nd Quarter Status Report for the former Ditmas Oil Terminal. I will also follow-up with a hard copy and compact disk. Many thanks, John A. Rhodes, P.E., F.NSPE CEUS Engineering, P.C. NJ: 5 Bedford Place, Morristown, 07960 NY: 62 William Street, 3rd Floor, New York, 10005 646 465 2494 10/31/2013 - V. Brevdo E-mails from CEUS Engineering: Vadim, Attached is the 3rd Quarter Status Report for the former Ditmas Terminal, minus the laboratory analytical reports that I will send you in a separate email. I will also send you a hard copy and CD by mail. Please confirm receipt. Thanks, John A. Rhodes, P.E. CEUS Engineering, P.C. NJ: 5 Bedford Place, Morristown, NJ 07960 NY: 62 William Street, New York, NY 10005 646 465 2494 JRhodes@CEUSEngineeringPC.com JARhodes1@Verizon.net Vadim, Attached are the laboratory analytical reports to accompany the 3rd Quarter Status Report sent in an earlier email. Thanks, John A. Rhodes, P.E. E-Mail from Brevdo of DEC to John Rhodes of CEUS: Dear Mr. Rhodes: This is to acknowledge receipt of two e-mails with attached status report and lab analytical reports. I will review in the upcoming few days and will get back to you if need be. Contact me if you have questions. Thank you. Vadim Brevdo 11/06/2013 - V. Brevdo Summary of the project status as of 11/06/13. Former Ditmas Oil Terminal, 364 Maspeth Avenue, Brooklyn (Spill No. 9006603) The Ditmas Oil Terminal (the Site) was an independent petroleum products storage and distribution bulk terminal. Remediation of the Site has progressed since 2004. The Site was decommissioned between February 2004 and June 2005. Approximately twenty petroleum storage tanks were removed from service. Underground contamination was delineated. All tanks and underground piping were drained of their content, demolished and removed from the Site. The Site is now a motor vehicles impound lot operated by the NYC Marshal. The Department approved Facility Closure / Oil Spill Remedial Action Plan and Addendum in October 2004 and March 2011 respectively. Initially, approximately 15,000 gallons of product and water were removed from test pits. A bioremediation

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

system was designed and installed in 2005. The system consisted of a series of trenches to allow seepage of a solution to enhance the biological degradation of petroleum contaminants. The March 2011 RAWP addendum required upgraded recovery of product using mechanical oil skimmer. The upgraded system began operation in September 2012. On November 5, 2013, CEUS Engineering, P.C. (CEUS) submitted remediation Status Report for the 3rd quarter of 2013. Planned activities for the 4th quarter of 2013 associated with further implementation of a RAWP Addendum remain similar to those undertaken in 3rd quarter of 2013, and include the following: Continuation of the bioremediation system operation, including the water depression pumping, oil skimming, treatment plant operation; continued evaluation of the effectiveness of the remedial system and its improvements, cleaning of discharge trenches; gauging and quarterly testing; periodic removal of oily water with a vacuum truck. Recoverable product will continue to be removed by peristaltic pump, skimmer or baling, followed by absorbent socks. CEUS advised the Department of their opinion that the Site is affected by migration of contaminants from the upgradient Key Span / National Grid Greenpoint facility (a.k.a. former Equity Manufactured Gas Plant site) which is undergoing remedial investigation via State Superfund program. The Department s oversight of said State Superfund project is conducted by DER s Remedial Bureau C in Central Office, Albany. Region 2 Project Manager for the Former Ditmas Oil Terminal petroleum spill remediation project and Central Office project manager for the Key Span / National Grid Greenpoint State Superfund project discussed future coordination of investigative and remedial work on these adjacent properties. VB 02/10/2014 V. Brevdo - CEUS submitted 4th Quarter 2013 Status Report, dated February 3, 2014. Estimated time frame for completion of the remediation and submission of the Final Engineering Report is early 2015, which is in the Section 5 Estimated Schedule , page 11 of the report. VB 05/02/2014 - V. Brevdo CEUS submitted 1st Quarter 2014 Status Report, dated April 28, 2014. VB 08/06/2014 - V. Brevdo CEUS submitted 2nd quarter 2014 Status Report, dated August 6, 2014. VB. 11/07/2014 - V. Brevdo CEUS/Advanced Site Restoration submitted 3rd quarter 2014 Status Report, dated November 7, 2014. Request Department’s approval of several cleanup technology changes. Department is reviewing the report. VB. 11/10/2014 - V. Brevdo Current Project Status Synopsis: Former Ditmas Oil Terminal, 364 Maspeth Avenue, Brooklyn (Spill No. 9006603) The Ditmas Oil Terminal (the Site) was an independent petroleum products storage and distribution bulk terminal. The Site was decommissioned between February 2004 and June 2005. Remediation of the Site has progressed since 2004 and is implemented under the Order on Consent. Approximately twenty petroleum storage tanks were removed from service. Underground contamination was delineated. All tanks and underground piping were drained of their content, demolished and removed from the Site. The Site is now a motor vehicles impound lot operated by the NYC Marshal. The Department approved Facility Closure / Oil Spill Remedial Action Plan and Addendum in October 2004 and March 2011 respectively. Initially, approximately 15,715 gallons of product and water were removed from test pits. A bioremediation system was designed and installed in 2005. The system consists of a series of trenches to allow seepage of a solution to enhance the biological degradation of petroleum contaminants. The March 2011 RAWP addendum required upgraded recovery of product using mechanical oil skimmer. The upgraded system began operation in September 2012. On November 7, 2014, CEUS Engineering,

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

P.C. / Advanced Site Restoration (CEUS / ASR) submitted remediation status report for the 3rd quarter of 2014. As of the end of the third quarter, 2014, the active oil recovery portion of the bioremediation system (skimmer and water depression pump) has eliminated the presence of product in MW-2 area. However, product continues to be detected in R-10 and MW-22 areas. Therefore, CEUS/ASR petitioned the Department for cessation of the active (by pumping) oil recovery operation in the MW-2 area and moving the pumping equipment to other areas. Absorbent socks will continue to be applied at MW-2 and maintained to capture product should it re-appear. CEUS/ASR also proposed several other modifications to the RAWP: elimination of three destroyed wells from monitoring program; pumping water from MW-22 and evaluating the reason MW-22 is slower than the other wells to improve; and adding biodegradable dye or sodium chloride as means of evaluating concentration changes and flows during pumping. CEUS / ASR plans to accomplish remedial objectives and petition the Department for closure of spill case tentatively in early to mid 2015. RP (Malu Properties) continues cooperation with USEPA Remedial Investigation for the Newtown Creek CERCLA Site. Malu Properties has allowed the USEPA to set up a water sampling station on the property s recently repaired bulkhead. Malu Properties also assisted the USEPA in establishing automated sampling station for storm water in the region. The next groundwater sampling is scheduled for December 2014. On November 10, 2014, the Department issued letter of approval of the 3rd quarter 2014 remediation status report and recommendations contained in the report. VB 05-01-2015 - V. Brevdo Former Ditmas Oil Terminal, 364 Maspeth Avenue, Brooklyn (Spill No. 9006603) On April 30, 2015, CEUS Engineering, P.C. / Advanced Site Restoration (CEUS / ASR) submitted remediation status report for the 1st quarter of 2015. As reported in earlier status reports, the active oil recovery portion of the bioremediation system (skimmer and water depression pump) has eliminated the presence of product in MW-2 area. Absorbent socks continue to be applied and maintained to capture product when it re-appear. To date, no product has reappeared in the MW-2 area. However, product continues to be detected in R-10 area. After conducting tidal and product recovery tests, CEUS/ASR decided to implement automatic product recovery in R-10 area to increase recovery rate. Implementation of automated product recovery in R-10 was included in the approved RAWP should absorbent socks be inefficient in removing the product. CEUS/ASR intends to install a belt skimmer in R-10. The next groundwater sampling is scheduled for May 2015. VB 08-25-2015 - V. Brevdo On August 25, 2015, CEUS Engineering, P.C. / Advanced Site Restoration (CEUS / ASR) submitted remediation status report for the second quarter of 2015. As reported in earlier status reports, the active oil recovery portion of the bioremediation system (skimmer and water depression pump) has eliminated the presence of product in MW-2 area. Absorbent socks continue to be applied and maintained to capture product when it re-appear. To date, no product has reappeared in the MW-2 area. However, product continues to be detected in R-10 area. After conducting tidal and product recovery tests, CEUS/ASR decided to implement automatic product recovery in R-10 area to increase recovery rate. Implementation of automated product recovery in R-10 was included in the approved RAWP should absorbent socks be inefficient in removing the product. CEUS/ASR intended to install a belt skimmer in R-10. However, over the second quarter, insufficient product has collected in R-10 area to meet the minimal requirements

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

for removal by a belt skimmer. Therefore, CEUS delayed implementation of product removal by a belt skimmer, and continue using absorbent sock instead. Groundwater was tested on June 8, 2015. The next groundwater sampling is scheduled for September 2015. VB 11-02-2015 - V. Brevdo Former Ditmas Oil Terminal, 364 Maspeth Avenue, Brooklyn (Spill No. 9006603) The Ditmas Oil Terminal (the Site) was an independent petroleum products storage and distribution bulk terminal. The Site was decommissioned between February 2004 and June 2005. Remediation of the Site has progressed since 2004 and is implemented under the Order on Consent. Approximately twenty petroleum storage tanks were removed from service. Underground contamination was delineated. All tanks and underground piping were drained of their content, demolished and removed from the Site. The Site is now a motor vehicles impound lot operated by the NYC Marshal. The Department approved Facility Closure / Oil Spill Remedial Action Plan and Addendum in October 2004 and March 2011 respectively. Initially, approximately 15,715 gallons of product and water were removed from test pits. A bioremediation system was designed and installed in 2005. The system consists of a series of trenches to allow seepage of a solution to enhance the biological degradation of petroleum contaminants. The March 2011 RAWP addendum required upgraded recovery of product using mechanical oil skimmer. The upgraded system began operation in September 2012. On November 2, 2015, CEUS Engineering, P.C. / Advanced Site Restoration (CEUS / ASR) submitted remediation status report for the third quarter of 2015. The Department is reviewed the report which has good news. CEUS / ASR intensified effort at product removal from recovery well R-10, coordinating recovery with the tides, and have not detected product since early August 2015. CEUS / ASR feel that they may be able to declare the Site product free in the upcoming few months. The focused recovery efforts on well MW-22 have also been successful. As extended pumping indicated improving conditions, CEUS / ASR took an unscheduled sample on September 29, 2015 in which benzene was detected at low concentrations of 29 microgram per liter (ppb). CEUS / ASR intend to continue focused efforts and sampling and testing to check for rebound. However, if aforementioned improvements continue, then all contaminants in all wells are expected to be below standards / cleanup criteria or trending downward criteria. Therefore, CEUS anticipate being in a position for closure in the spring of 2016. VB 02-02-2016 - V. Brevdo Former Ditmas Oil Terminal, 364 Maspeth Avenue, Brooklyn (NYSDEC Spill No. 9006603) The Ditmas Oil Terminal (the Site) was an independent petroleum products storage and distribution bulk terminal. The Site was decommissioned between February 2004 and June 2005. Remediation of the Site has progressed since 2004 and is implemented under the Order on Consent. Approximately twenty petroleum storage tanks were removed from service. Underground contamination was delineated. All tanks and underground piping were drained of their content, demolished and removed from the Site. The Site is now a motor vehicles impound lot operated by the NYC Marshal. The Department approved Facility Closure / Oil Spill Remedial Action Plan and Addendum in October 2004 and March 2011 respectively. Initially, approximately 15,715 gallons of product and water were removed from test pits. A bioremediation system was designed and installed in 2005. The system consists of a series of trenches to allow seepage of a solution and oxygenated water to enhance the biological degradation of petroleum contaminants. The March 2011 RAWP addendum required upgraded recovery

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of product using mechanical oil skimmer. The upgraded system began operation in September 2012. On February 1, 2016, CEUS Engineering, P.C. / Advanced Site Restoration (CEUS / ASR) submitted remediation status report for the fourth quarter of 2015. No free product has been encountered in any well other than R-10 since June 2014. CEUS / ASR therefore proposed the cessation of product gauging and recovery in all wells other than R-10. CEUS / ASR will continue to monitor for product in R-10 well and recover product using absorbent socks. CEUS/ ASR concluded that the bioremediation is no longer necessary except to enable the surging of MW-22, an inland well, and the discharge of contaminated water pumped from MW-22. CEUS /ASR proposed to maintain the bioremediation system while they continue to address the conditions at MW-22, and operate the system in conjunction with activities related to MW-22. Planned activities for the next quarter as related to the RAWP Addendum include the following: The bioremediation system will be maintained and operated on an as-needed basis to accommodate continued sampling and/or remedial activities at MW-22; If benzene concentrations remain elevated at MW-22 during upcoming March 2016 sampling event, CEUS /ASR will recommence remedial activities, including pumping and pulsing of the well; Sampling and testing will continue for wells MW-8 and MW-23 for at least two more quarters to confirm a downward trend in benzene concentrations; Frequent monitoring for product in well R-10 will continue and product, if encountered, will be removed using absorbent socks. A scope of reduction in the sampling/monitoring and remedial activities in the next quarter is presented in detail on Page 10 of the January 31, 2016 Status Report. On February 2, 2016, the Department approved Fourth Quarter 2015 Status Report including the course of action and reduction of the scope of sampling/monitoring and remediation activities proposed by CEUS /ASR. CEUS /ASR anticipate to accomplish closure of this spill case in late 2016 or early 2017. VB May 2, 2016 - V. Brevdo Received and e-mail from John A. Rhodes of CEUS Engineering, P.C. and first quarter of 2016 monitoring report: Vadim, Attached is the 1st Quarter 2016 Status Report for the former Ditmas Terminal. There is not much to report as we were unable to do much over the winter. However, we have put the treatment system back on line and have begun working on MW-22, so we should have more news in the next status report. Benzene in MW-22 and product in R-10 are about the same. Thanks, John John A. Rhodes, P.E., F.NSPE CEUS Engineering, P.C. NJ: 5 Bedford Place, Morristown, NJ 07960 NY: 62 William Street, New York, NY 10005 646 465 2494 JRhodes@CEUSEngineering.com JARhodes1@Verizon.net 08/03/2016 - V. Brevdo On August 1, 2016, CEUS Engineering, P.C. / Advanced Site Restoration (CEUS / ASR) submitted remediation status report for the second quarter of 2016. CEUS / ASR continued gauging and product recovery activities for well R-10. Product recovery was done using the absorbent socks. Planned activities for the next quarter as related to the RAWP Addendum include the following: The bioremediation system will be maintained and operated on an as-needed basis to accommodate continued sampling and/or remedial activities at MW-22; CEUS / ASR will continue the recent successful activities in the MW-22 area to improve rate of contaminant degradation, including sustained and monitored pumping, and surging of the well; CEUS / ASR will continue frequent monitoring for product in R-10, and remove it using absorbent socks should it be encountered. CEUS /ASR anticipate to accomplish closure of this spill case in late 2016 or early 2017. VB 10/28/2016 - V. Brevdo On October 31, 2016, CEUS Engineering, P.C.

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/ Advanced Site Restoration (CEUS / ASR) submitted remediation status report for the third quarter of 2016. CEUS / ASR concluded that the recalcitrant oil observed in well R-10 was the result of seepage from the blocked sewer. Upon removal of the blocked portion of the sewer pipe, the oily sediment and soil in the vicinity of the blocked portion of the pipe, no oil has been detected in R?10. No oil has been detected anywhere on the former Ditmas property and the oil recovery program has been completed. The March, June and September 2016 sampling and testing show benzene concentrations in remaining wells to be below or near 100 ?g/l with the exception of MW?22. Focused activities on MW?22 will continue. CEUS /ASR anticipate to accomplish closure of this spill case in 2017. VB 02/01/2017 - V. Brevdo On February 1, 2017, CEUS Engineering / ASR submitted 4Q 2016 Site Status Report and Spill Case Closure Petition. Upon review of both report and petition, DEC project manager requested ASR to revise report and petition to make a better and more compelling case to support merits of spill case closure petition. VB 02/15/2017 - V. Brevdo Former Ditmas Oil Terminal, 364 Maspeth Avenue, Brooklyn (NYSDEC Spill No. 9006603). Project Summary and Spill Case Closure Decision. The Ditmas Oil Terminal (the Site) was an independent petroleum products storage and distribution bulk terminal. The Site was decommissioned between February 2004 and June 2005. Remediation of the Site has progressed since 2004 and is implemented under the Order on Consent. Approximately twenty petroleum storage tanks were removed from service. Underground contamination was delineated. All tanks and underground piping were drained of their content, demolished and removed from the Site. The Site is now a short term parking area for film production trailers, and other commercial fleet vehicles. Previously, it was a motor vehicles impound lot operated by the NYC Marshal. The Department approved Facility Closure / Oil Spill Remedial Action Plan and Addendum in October 2004 and March 2011 respectively. Initially, approximately 15,715 gallons of product and water were removed from test pits. A bioremediation system was designed and installed in 2005. The system consists of a series of trenches to allow seepage of a solution to enhance the biological degradation of petroleum contaminants. The March 2011 RAWP addendum required upgraded recovery of product using mechanical oil skimmer in Recovery Well R-9 near Monitoring Well MW-2. The upgraded system began operation in September 2012 and completed oil recovery by June 2014. CEUS / ASR therefore proposed the cessation of product gauging and recovery in all wells other than R-10, where oil recovery continued. Additionally, CEUS/ ASR concluded that the bioremediation is no longer necessary except to enable the surging of MW-22 and the discharge of contaminated water pumped from MW-22. CEUS /ASR maintained the bioremediation system while they continue to address the conditions at MW-22, and operate the system in conjunction with activities related to MW-22. On October 31, 2016, CEUS Engineering, P.C. / Advanced Site Restoration (CEUS / ASR) submitted remediation status report for the third quarter of 2016. CEUS / ASR concluded that the recalcitrant oil observed in well R-10 was the result of seepage from the blocked sewer. Upon removal of the blocked portion of the sewer pipe, the oily sediment and soil in the vicinity of the blocked portion of the pipe, no oil has been detected in R?10. As of February, 2017, no oil has been detected anywhere on the former Ditmas property and the oil recovery program has been completed. The March, June and September 2016 sampling and testing show benzene concentrations in remaining wells to be below or near 100 ?g/l with

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

the exception of MW?22. Focused activities on MW?22 continued through December 2016. In the 4th Quarter 2014 Status Report (dated January 31, 2015), a proposal was submitted to undertake tests on MW-22 and a pilot study involving surging to try to increase the rate of contaminant reduction. This proposal was approved by the NYSDEC, and the tests conducted in the spring of 2015 and pilot study begun in September of 2015. Initially, a dye study demonstrated that MW-22 was not being adequately affected by the bioremediation system - oxygenated water was not reaching the area of the well. Aquifer testing evaluated the hydraulic conductivity to be 0.85 gallons per day per foot squared, a substantially lower value than that measured in surrounding areas. With the low hydraulic conductivity and lack of flow to the south toward the bio-remediation trenches and the English Kills, the only sensitive receptor for contaminated groundwater, CEUS/ASR concluded that remaining contaminants were isolated and contained, and not affecting the English Kills. Further, CEUS/ASR concluded that continued surging of the well would have limited effectiveness as the spreading of oxygenated water via the bio-remediation trenches or the recovery of contaminated water would be limited by the low hydraulic conductivity. In turn, CEUS/ASR submitted that the dissolved groundwater concentrations at MW-22 posed no further threat to human health and the environment and have been addressed to the extent feasible. CEUS /ASR proposed closure of this spill case in February, 2017, based on the following criteria: " The Primary Spill Source has been addressed, " Free product has been removed, " Grossly contaminated soil has been addressed to the extent feasible, " The remaining areas of contaminated soil have been addressed to the extent feasible as per CP-51 Soil Cleanup Guidance, " Residual groundwater contaminants either meet standards/cleanup guidance values or are within the range acceptable to the Department, " The nature and extent of groundwater contamination has been delineated, " Dissolved groundwater concentrations have been addressed to the extent feasible, " No migration of contaminants off site is occurring and no threats to sensitive receptors exist, " Remaining contamination is contained, " No threat of exposure to vapors from remaining contamination exists, and, " The Site poses no further threat to human health and the environment for the contemplated use. The Department closed this spill case on February 15, 2017. "

Remarks: "GASOLINE Spill into secondary containment - NYCDEP,USCG,NYCFD ON SCENE, ALARM FAILURE CAUSED PRODUCT TO EXIT THROUGH VENT IN FIRE EXTINGUISHING SYSTEM,APPROX 200 CU YDS OF CONTAMINATED SOIL."

All Materials:

Site ID:	112706
Operable Unit ID:	944116
Operable Unit:	01
Material ID:	434056
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1000.00
Units:	G
Recovered:	.00
Oxygenate:	True

Site ID: 112706

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

Operable Unit ID:	944116
Operable Unit:	01
Material ID:	572591
Material Code:	1213A
Material Name:	MTBE (methyl-tert-butyl ether)
Case No.:	01634044
Material FA:	Hazardous Material
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	True

Name:	GASETERIA OIL CORP
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9812647 / 2003-09-19
Facility ID:	9812647
Facility Type:	ER
DER Facility ID:	102823
Site ID:	112707
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	2401
Spill Date:	1999-01-07
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1999-01-13
CID:	384
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1999-01-13
Spill Record Last Update:	2003-09-19
Spiller Name:	OSCAR PORCELLI
Spiller Company:	GASETERIA OIL CORP
Spiller Address:	364 MASPETH AVE
Spiller Company:	001
Contact Name:	OSCAR PORCELLI
DEC Memo:	""
Remarks:	"LEAKED FROM AN UNDERGROUND PIPE. CLEAN UP WILL BE COMPLETED BY CALLER'S COMPANY. SAMPLES WERE TAKEN."

All Materials:

Site ID:	112707
Operable Unit ID:	1069897
Operable Unit:	01
Material ID:	312923
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPDES:

Name:	TERMINNALLE
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Permit Number:	NY0005789
State-Region:	02
Expiration Date:	01/01/2004
Current Major Minor Status:	Minor
Primary Facility SIC Code:	5171
State Water Body Name:	ENGLISH KILLS
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	0.022
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	40.718306 / -73.929583
DMR Cognizant Official:	MANUG AYDIN
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	TERMINNALLE
Non-Gov Permit Street Address:	TERMINNALLE
Non-Gov Permit Supplemental Location:	364 MASPETH AVENUE
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	TERMINNALLE
Non-Gov Facility Street Address:	TERMINNALLE
Non-Gov Facility Supplemental Location:	364 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

Name:	TERMINNALLE
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
UDF2:	001702
UDF3:	SD

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	TERMINNALLE
Non-Gov Permit Street Address:	TERMINNALLE
Non-Gov Permit Supplemental Location:	364 MASPETH AVENUE
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	TERMINNALLE
Non-Gov Facility Street Address:	TERMINNALLE
Non-Gov Facility Supplemental Location:	364 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	TERMINNALLE
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	TERMINNALLE
Non-Gov Permit Street Address:	364 MASPETH AVENUE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	TERMINNALLE
Non-Gov Facility Street Address:	TERMINNALLE
Non-Gov Facility Supplemental Location:	364 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

DITMAS OIL ASSOCIATES, INC. (Continued) **S103827207**

Name:	TERMINNALLE
Address:	364 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	TERMINNALLE
Non-Gov Permit Street Address:	364 MASPETH AVENUE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	TERMINNALLE
Non-Gov Facility Street Address:	TERMINNALLE
Non-Gov Facility Supplemental Location:	364 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

222
East
1/4-1/2
0.363 mi.
1914 ft.

46-81 METROPOLITAN AVE **NY BROWNFIELDS** **S127990275**
46-81 METROPOLITAN AVENUE **N/A**
QUEENS, NY 11385

Relative:
Lower

Actual:
9 ft.

BROWNFIELDS:

Name:	46-81 METROPOLITAN AVE
Address:	46-81 METROPOLITAN AVENUE
City,State,Zip:	QUEENS, NY 11385
Program:	BCP
Site Code:	623115
Acres:	4.490
HW Code:	C241260
SWIS:	4101
Town:	New York City
Record Added Date:	08/06/2021
Record Updated Date:	12/06/2021
Update By:	HMDUDEK
Site Description:	"Location: The site is located at 46-81 Metropolitan Avenue and occupies Queens Borough Tax Block 2611, Lot 71. The site is bound to the north by a bulkhead, the majority of which is a part of the east-adjoining lot, followed by Newtown Creek (a National Priorities List [NPL] site), followed by a parking lot and Grand Avenue; to the east by a grocery store, caf , liquor store, and an asphalt-paved parking area; to the south by Metropolitan Avenue followed by a wholesale grocery store and industrial buildings; and to the west by a concrete supplier and a New York City Transit Authority building,

46-81 METROPOLITAN AVE (Continued) **S127990275**

followed by Newtown Creek. Surrounding properties include single- and multi-story buildings occupied by industrial and commercial occupants. Site Features: The site is approximately 4.5 acres (195,698 square feet) in area and is located in an industrial part of the Ridgewood neighborhood of Queens, New York. According to the 2013 United States Geological Survey (USGS) Brooklyn Quadrangle 7.5-Minute Series Topographic Maps, the site is at an elevation of about 5 to 10 feet above mean sea level (msl). The site and surrounding area slope down to the northwest towards Newtown Creek. The site primarily consists of an asphalt parking lot with a one-story bus maintenance building with an attached two-story office building in the southern portion of the site, and four office trailers in the northeastern portion of the site. Current Zoning and Land Use: According to the New York City (NYC) Planning Commission Zoning Map 13b, the site is located in an M3-1 manufacturing zoning district. M3 districts are designated as areas with heavy industries that generate noise, traffic or pollutants. Typical uses include power plants, solid waste transfer facilities and recycling plants, and fuel supply depots. Past Use of the Site: The site has been occupied by commercial and industrial facilities since as early as 1902. The site is currently developed with a large asphalt paved parking lot, offices and a bus maintenance facility. The historical and current site uses of environmental concern include: automotive repair operations (1971-present); gasoline filling station (1971-2006); Bohack Terminal (1936-1950); and, Hardy, Voorhees and Co. Lumber Yard and Planing Mill (1902). Previous studies dating back to 2014 indicated that stored petroleum and hazardous substances were associated with the current bus repair operations. In addition, several regulatory listings for the site (Resource Conservation and Recovery Act Generators [RCRA], Facility Index System, New York State Department of Environmental Conservation [NYSDEC] Spills and NYSDEC Petroleum Bulk Storage Facilities databases) identified petroleum storage, petroleum releases (closed status) and hazardous waste generation at the site. Previous studies indicate that a total of 21 underground storage tanks (USTs) were removed from the site (along with petroleum-impacted soil and groundwater), and petroleum spills were reported and closed. These reports also indicate that at least one closed-in-place UST; hazardous lead; and petroleum-impacted soil and petroleum-impacted groundwater, including light non-aqueous phase liquid (LNAPL), remain at the site, despite documented remedial efforts related to the petroleum spills. In addition, chlorinated solvents were identified in sub-slab soil vapor at the site. Site Geology and Hydrogeology: The site is underlain by fill to depths ranging from about 4 to 9 feet below grade surface (bgs) across the site; the fill generally consists of sand with varying amounts of gravel, brick, slag, glass, and coal ash. The fill is underlain by native soil which consists of varying amounts of clay, peat, sand and silt. Groundwater was encountered at about 3.5 to 7.5 feet bgs. Groundwater flow is presumed to be to the north towards Newtown Creek. The United States Geological Survey (USGS) Bedrock and Engineering Geologic Maps of New York County and Parts of Kings and Queens Counties, New York, and Parts of Bergen and Hudson Counties, New Jersey estimate bedrock to be about 200-feet bgs and indicate the bedrock underlying the site is the Hartland Formation. The Hartland Formation is comprised of a dark gray, medium to coarse-grained muscovite-biotite-garnet (mica) schist and gray fine-grained quartz-feldspar granulite with biotite and garnet, with localized

46-81 METROPOLITAN AVE (Continued) **S127990275**

	concentrations of granite and intrusions of coarse-grained granitic pegmatite."
Env Problem:	"Information submitted with the BCP application regarding the environmental condition at the site are currently under review and will be revised as additional information becomes available."
Health Problem:	"Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2021-11-01 12:16:00
Record Upd:	2021-11-01 12:16:00
Updated By:	GWBURKE
Own Op:	6
Sub Type:	P03
Owner Name:	Brett Richer
Owner Company:	46-81 Metro Ground Lessee LLC
Owner Address:	c/o Prologis, Inc.
Owner Addr2:	1800 Wazee Street, Suite 500
Owner City,St,Zip:	Denver, CO 80202
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

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223 **APARTMENT BUILDING** **NY LTANKS** **S107789405**
WSW **35 MEADOW STREET** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.368 mi.
1945 ft.

Relative:
Higher

Actual:
20 ft.

LTANKS:

Name:	APARTMENT BUILDING
Address:	35 MEADOW STREET
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0601731 / 2006-08-29
Facility ID:	0601731
Site ID:	364030
Spill Date:	2006-05-16
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	2401

APARTMENT BUILDING (Continued) **S107789405**

Investigator:	HRPATEL
Referred To:	Not reported
Reported to Dept:	2006-05-16
CID:	408
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2006-05-16
Spill Record Last Update:	2006-08-29
Spiller Name:	DEREK DENCKLA
Spiller Company:	APARTMENT BUILDING
Spiller Address:	35 MEADOW STREET
Spiller County:	001
Spiller Contact:	DEREK DENCKLA
Spiller Phone:	(917) 674-9040
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	314232
DEC Memo:	"05/17/06-Hiralkumar Patel. Spoke to Jim at Protest. it was 1500 gal AST. tank was cleaned in past and doesn't have manhole. and Jim found dry leak and thinks it is from patch on top of tank. he hasn't find any oil stains on floor. he has send proposal to owner and planning to clean tank and to put manhole on tank. haven't found PBS number. Spoke to Derek. he is process of buying this property and gave current owner's name and number. Joseph Heimlich (718) 381-2405 As per Derek, he has closing of this property on Jun 30 2006. once he will get property on his name, he will remove tank and system. owner is not using tank currently. asked him to send tank test results and letter signed by current owner and purchaser stating that they will remove tank after closing and tank is not in use currently by end of tomorrow. told Derek that as this tank is more than 1100 gal capacity, it has to be registered with PBS eventhought they are planning to remove it after Jun. Spoke to Joseph. as per him, he has turn off boiler and tank is not in use currently. tank has oil less than half of the volume. told Joseph that if Department receive letter from him and Derek, Department can wait till they remove tank. but tank has to registered with PBS now. send out letter with tank registration requirement. faxed to Joseph and Derek. Joseph Heimlich 35 Meadow Street Brooklyn, NY 11206 FAX (718) 381-2875 05/19/06-Hiralkumar Patel. Received letter from Joseph and Derek. abstract: - owner is selling property and property is set to close on or about July 30, 2006. - heating season is over and boiler is currently turned off and will remain turned off through contract closing date - based on tank test, owner has cancelled all scheduled oil deliveries and suspended oil delivery service until further notice. 08/01/06-Hiralkumar Patel. spoke with Derek. he is no longer in process of buying this property. spoke with Joseph. owner has removed oil, clean tank and sealed it back. he didn't do any isolation test or system test after tank cleaning. asked Joseph to do system test again. he will call ABC tank for further testing. 08/02/06-Hiralkumar Patel. received call from Robert from ABC Tank. they will do system test probably next week. Robert will call once he gets test result. 08/29/06-Hiralkumar Patel. spoke with Donna at ABC

APARTMENT BUILDING (Continued) **S107789405**

Tank. they have changed rubber gasket on tank. she doesn't have any information about system test. she will check and call back. received call from Donna. she got test result and will fax it. got passing system test in fax. tank is registered now. PBS#: 2-610289 based on available informations, case closed."

Remarks: ""

All Materials:

Site ID:	364030
Operable Unit ID:	1122083
Operable Unit:	01
Material ID:	2111568
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AM224 **LEWIS FLUSHING CORP.** **NY LTANKS** **S106703215**
ESE **1819 FLUSHING AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.369 mi.
1946 ft. **Site 1 of 2 in cluster AM**

Relative: **Higher**

Actual: **18 ft.**

LTANKS:

Name:	LEWIS FLUSHING CORP.
Address:	1819 FLUSHING AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	8800833 / 1993-11-05
Facility ID:	8800833
Site ID:	288930
Spill Date:	1988-04-27
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	1993-11-05
SWIS:	2401
Investigator:	BATTISTA
Referred To:	Not reported
Reported to Dept:	1988-04-27
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1988-04-29
Spill Record Last Update:	2003-01-27
Spiller Name:	Not reported
Spiller Company:	LEWIS FLUSHING CORP.
Spiller Address:	Not reported
Spiller County:	001

LEWIS FLUSHING CORP. (Continued) **S106703215**

Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 234005
DEC Memo: ""
Remarks: "3,500 GALLON TANK SYSTEM FAILED PETROTITE TANK TEST AT 2.5 GALLONS PER HOUR. COULD NOT MAINTAIN LEVEL IN TEST EQUIPMENT."

All TTF:
Facility ID: 8800833
Spill Number: 8800833
Spill Tank Test: 1533765
Site ID: 288930
Tank Number: Not reported
Tank Size: 0
Material: 0001
EPA UST: Not reported
UST: Not reported
Cause: Not reported
Source: Not reported
Test Method: 00
Test Method 2: Unknown
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 288930
Operable Unit ID: 916321
Operable Unit: 01
Material ID: 460004
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: G
Recovered: .00
Oxygenate: Not reported

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225 SW 1/4-1/2 0.371 mi. 1958 ft.

MORGAN TERMINAL
200 MORGAN AVE
NEW YORK, NY

NY HSWDS **S108146606**
N/A

Relative: Higher

Actual: 15 ft.

HSWDS:
Facility ID: Not reported
Region: 2
Facility Status: Unknown
Owner Type: Puplic
Owner: Morgan Oil Corporation
Owner Address: c/o Shatzkin&F 99 Wall St
Owner Phone: Unknown
Operator Type: Puplic

MORGAN TERMINAL (Continued) **S108146606**

Operator:	N/A
Operator:	N/A
Operator Phone:	Not reported
EPA ID:	Not reported
Registry:	Unknown
Registry Site ID:	Unknown
RCRA Permitted:	Unknown
Site Code:	Leaking tanks, drums, lagoons, other containers
Owner City State:	New York, NY
Operator City State:	Not reported
Quadrange:	Brooklyn Quadrangle
Latitude:	40 42 30 N
Longitude:	73 56 00 W
Acres:	0.00
Operator Date:	> 40 yrs
Close Date:	Unknown
Completed:	Unknown
Active:	No
PCB's Disposed:	No
Pesticides Disposed:	No
Metals Disposed:	Yes
Asbestos Disposed:	Yes
Volatile Organic Compounds Disposed:	No
Semi Volatile Organic Compounds Disposed:	No
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	Groundwater
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Surface Soil
Analytical Info Exists for Substance:	Subsurface
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	TCLP
Threat to Environment/Public Health:	Environmental
Surface Water Contamination:	Yes
Surface Water Body Class:	SD
Groundwater Contamination:	Yes
Groundwater Classification:	SoleSource
Drinking Water Contamination:	No
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	Unknown
Hazardous Exposure:	No
Site Has Controlled Acess:	No
Ambient Air Contamination:	No
Direct Contact:	No
EPA Hazardous Ranking System Score:	Not reported
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported

MORGAN TERMINAL (Continued) **S108146606**

Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

226
SE
1/4-1/2
0.379 mi.
2001 ft.

F & W WOODWORK CO
1267 FLUSHING AVE
BROOKLYN, NY 11237

NY LTANKS **1000554921**
NY Spills **NYD986974129**
RCRA NonGen / NLR
NY MANIFEST

Relative:
Higher

Actual:
17 ft.

LTANKS:

Name:	1267 FLUSHING AVENUE
Address:	1267 FLUSHING AVENUE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9308847 / 1993-10-21
Facility ID:	9308847
Site ID:	60933
Spill Date:	1993-10-21
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	C3
Cleanup Ceased:	1993-10-21
SWIS:	2401
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	1993-10-21
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1993-10-21
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	BAERENKLAU FUEL OIL CO.
Spiller Address:	740 JAMAICA AVENUE
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2

F & W WOODWORK CO (Continued) **1000554921**

DER Facility ID: 59401
DEC Memo: ""
Remarks: "SPEEDY DRY USED."

All Materials:
Site ID: 60933
Operable Unit ID: 987772
Operable Unit: 01
Material ID: 570164
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 2.00
Units: G
Recovered: .00
Oxygenate: Not reported

SPILLS:
Name: 1267 FLUSHING AVE/C F & W
Address: 1267 FLUSHING AVENUE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 9110833 / 2001-11-07
Facility ID: 9110833
Facility Type: ER
DER Facility ID: 59401
Site ID: 72106
DEC Region: 2
Spill Cause: Human Error
Spill Class: C4
SWIS: 2401
Spill Date: 1991-08-23
Investigator: TOMASELLO
Referred To: Not reported
Reported to Dept: 1992-01-17
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: 2001-11-07
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1992-02-06
Spill Record Last Update: 2001-11-07
Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller Company: 001
Contact Name: Not reported
DEC Memo: ""
Remarks: "TONE CLEANING; NYCDEP ISSUED CLEANUP ORDER."

F & W WOODWORK CO (Continued) **1000554921**

RCRA NonGen / NLR:

Date Form Received by Agency:		20070101
Handler Name:	F & W WOODWORK CO	
Handler Address:		1267 FLUSHING AVE
Handler City,State,Zip:		BROOKLYN, NY 11237-2302
EPA ID:		NYD986974129
Contact Name:		Not reported
Contact Address:		FLUSHING AVE
Contact City,State,Zip:		BROOKLYN, NY 11237
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		02
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		NY
State District:		NYSDEC R2
Mailing Address:		FLUSHING AVE
Mailing City,State,Zip:		BROOKLYN, NY 11237
Owner Name:		FRANZ FISCHER
Owner Type:		Private
Operator Name:		FRANZ FISCHER
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported

F & W WOODWORK CO (Continued) **1000554921**

202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	FRANZ FISCHER
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	UNKNOWN
Owner/Operator City,State,Zip:	UNKNOWN, NY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

F & W WOODWORK CO (Continued) **1000554921**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	FRANZ FISCHER
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	UNKNOWN
Owner/Operator City,State,Zip:	UNKNOWN, NY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	FRANZ FISCHER
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	UNKNOWN
Owner/Operator City,State,Zip:	UNKNOWN, NY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990708
Handler Name: F & W WOODWORK CO	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060101
Handler Name: F & W WOODWORK CO	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101
Handler Name: F & W WOODWORK CO	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No

F & W WOODWORK CO (Continued) **1000554921**

Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19910821
Handler Name: F & W WOODWORK CO	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number: Not reported	
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type: Not reported	
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number: Not reported	
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported

F & W WOODWORK CO (Continued) **1000554921**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19921216
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R2
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

NY MANIFEST:

Name:	F W WOODWORK
Address:	1267 FLUSHING AVE
City,State,Zip:	BROOKLYN, NY 11237-2302
Country:	USA
EPA ID:	NYD986974129
Facility Status:	Not reported
Location Address 1:	1267 FLUSHING AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11237
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD986974129
Mailing Name:	F W WOODWORK
Mailing Contact:	RAY CRUZ
Mailing Address 1:	1267 FLUSHING AVE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7188211300

AI227 **DERBY TEXTILE CORPORATION** **NY LTANKS** **U000411048**
South **41 VARICK AVENUE** **NY UST** **N/A**
1/4-1/2 **BROOKLYN, NY 11237**
0.380 mi.
2004 ft. **Site 2 of 2 in cluster AI**

Relative:
Higher

Actual:
16 ft.

LTANKS:

Name:	DERBY TEXTILE CORP
Address:	41 VARICK AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9713513 / 2004-08-18
Facility ID:	9713513
Site ID:	331363
Spill Date:	1998-03-05
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	1998-03-05
CID:	322
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1998-03-05
Spill Record Last Update:	2004-08-18
Spiller Name:	KEITH
Spiller Company:	DERBY TEXTILE CORP
Spiller Address:	41 VARICK AVE
Spiller County:	001
Spiller Contact:	KEITH
Spiller Phone:	(718) 384-9151
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	266507
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND Sub to USA tanks, Keith 718-384-9151. 8/18/2004 Sangesland reviewed a package from William Fried of Derby Textile Corp. (718-628-6300). Receipts show that PTC returned to the site 3/26-3/31 1998 (2 weeks after the initial spill report). They excavated to tank top and replaced all lines. No contamination was found. Tank was cleaned and then retested - Passed."
Remarks:	"GROSS FAILURE "

All TTF:

Facility ID:	9713513
Spill Number:	9713513
Spill Tank Test:	1545656
Site ID:	331363
Tank Number:	1
Tank Size:	3000
Material:	0002
EPA UST:	Not reported
UST:	Not reported

DERBY TEXTILE CORPORATION (Continued) **U000411048**

Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	331363
Operable Unit ID:	1056368
Operable Unit:	01
Material ID:	324528
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

UST:

Name:	DERBY TEXTILE CORPORATION
Address:	41 VARICK AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Id/Status:	2-477982 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590685.03398
UTM Y:	4506768.31548
Site Type:	Other

Affiliation Records:

Site Id:	21224
Affiliation Type:	Mail Contact
Company Name:	DERBY TEXTILE CORPORATION
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	41 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 628-6300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2016-05-12

Site Id:	21224
Affiliation Type:	Facility Operator

DERBY TEXTILE CORPORATION (Continued) **U000411048**

Company Name:	DERBY TEXTILE CORPORATION
Contact Type:	Not reported
Contact Name:	WOLF FRIED
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 628-6300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2016-05-12

Site Id:	21224
Affiliation Type:	Emergency Contact
Company Name:	DERBY TEXTILE CORPORATION
Contact Type:	Not reported
Contact Name:	WOLF FRIED
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 628-6300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2016-05-12

Site Id:	21224
Affiliation Type:	Facility Owner
Company Name:	DERBY TEXTILE CORPORATION
Contact Type:	V.P.
Contact Name:	WOLF FRIED
Address1:	41 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 628-6300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2016-05-12

Tank Info:

Tank Number:	001
Tank ID:	38456
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	2700
Install Date:	01/01/1931

DERBY TEXTILE CORPORATION (Continued) **U000411048**

Date Tank Closed:	12/09/2015
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	12/07/2015
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MRBARROW
Last Modified:	04/14/2017

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None

228
SSW
1/4-1/2
0.380 mi.
2005 ft.

88 INGRAHAM REALTY CORP
88 INGRAHAM ST
BROOKLYN, NY 11206

RCRA-SQG **1000425382**
NY ENG CONTROLS **NYD020592838**
NY INST CONTROL
NY VCP
NY MANIFEST

Relative:
Higher

Actual:
21 ft.

RCRA-SQG:

Date Form Received by Agency:	20110725
Handler Name:	88 INGRAHAM REALTY CORP
Handler Address:	88 INGRAHAM ST
Handler City,State,Zip:	BROOKLYN, NY 11206
EPA ID:	NYD020592838
Contact Name:	WILLIAM EISEN
Contact Address:	BELLAVERDE WAY
Contact City,State,Zip:	DELRAY BEACH, FL 33445
Contact Telephone:	561-496-5200
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	FORMER OWNER
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	INGRAHAM ST
Mailing City,State,Zip:	BROOKLYN, NY 11206
Owner Name:	MARTIN ZIMMERMAN
Owner Type:	Private
Operator Name:	MARTIN ZIMMERMAN
Operator Type:	Private

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Hazardous Waste Summary:
Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: OWNERNAME
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: OWNERNAME
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: OWNERNAME
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MARTIN ZIMMERMAN
Legal Status: Private
Date Became Current: 20030315
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MARTIN ZIMMERMAN
Legal Status: Private
Date Became Current: 20030315
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19990708
Handler Name: POPULAR UNIFORM RENTAL
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: POPULAR UNIFORM RENTAL
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: POPULAR UNIFORM RENTAL
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Receive Date: 19850710
Handler Name: POPULAR UNIFORM RENTAL
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20110725
Handler Name: 88 INGRAHAM REALTY CORP
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 23899
NAICS Description: ALL OTHER SPECIALTY TRADE CONTRACTORS

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19870330
Actual Return to Compliance Date: 19870330
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19830401
Enforcement Identifier: 001
Date of Enforcement Action: 19830330
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYDEC
Enforcement Responsible Sub-Organization: Not reported

88 INGRAHAM REALTY CORP (Continued) **1000425382**

SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19870330
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier: NYDEC
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19870330
Scheduled Compliance Date: 19830401
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

ENG CONTROLS:
Name: POPULAR HAND LAUNDRY
Address: 88 INGRAHM STREET
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58534
HW Code: V00170
Control Code: 15
Control Type: ENG
Date Record Added: 02/23/2016
Date Rec Updated: 11/19/2019
Updated By: LSZINOMA
Site Description: "Location: The site is located at 88 Ingraham Street in Brooklyn, NY. Site Features: It consists of a two story building with an adjoining garage. The building comprises approximately 11,000 sq ft. and occupies the entire site. Current Zoning/Use: The site is currently used as for storage and restoration of antique furniture and artwork. The surrounding area is industrial. Historical Use: Since 1933 the building has been used for skein dying, dry cleaning and laundry operations. The site was acquired by Popular Hand Laundry (circa 1970) which operated dry cleaning services. Prior to 1970, a dry cleaning and laundry facility was operated by Klink. The site remedial program is being performed by 88 Ingraham Realty Corp. and Popular Hand Laundry and Cleaners of Richmond Hill, Inc. under the DEC's Voluntary Cleanup Program. Site Geology and Hydrogeology: Groundwater was detected at about 15 feet below grade, and measurements of groundwater elevation indicated that groundwater flow is to the north. "
Env Problem: "Nature and extent of contamination: Post remediation: remediation at

88 INGRAHAM REALTY CORP (Continued) **1000425382**

	the site is complete. prior to remediation, the primary contaminants of concern were the chlorinated solvents tetrachloroethene and trichloroethene in soil, groundwater and soil vapor. Remediation has successfully achieved soil cleanup objectives for commercial and industrial use. Remaining contamination in soil vapor is being managed under a Site Management Plan. "
Health Problem:	"Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2009-10-06 08:02:00
Record Upd:	2013-09-20 14:17:00
Updated By:	ldennist
Own Op:	6
Sub Type:	03
Owner Name:	William Eisen
Owner Company:	88 ingraham Realty Corporation
Owner Address:	7700 Bella verde Way
Owner Addr2:	Not reported
Owner City,St,Zip:	Delray Beach, FL 33446
Owner Country:	United States of America
HW Code:	V00170
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00170
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00170
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00170
Waste Type:	Hazardous Substances
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	W2-0813-98-06(R
Cross Ref Type Code:	20
Cross Ref Type:	Haz. Substance ID
Record Added Date:	2000-11-30 16:07:00
Record Updated:	2005-02-24 15:54:00
Updated By:	VCPTRANS
Name:	POPULAR HAND LAUNDRY
Address:	88 INGRAHM STREET
City,State,Zip:	BROOKLYN, NY 11237
Site Code:	58534
HW Code:	V00170

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Control Code:	13
Control Type:	ENG
Date Record Added:	02/23/2016
Date Rec Updated:	11/19/2019
Updated By:	LSZINOMA
Site Description:	"Location: The site is located at 88 Ingraham Street in Brooklyn, NY. Site Features: It consists of a two story building with an adjoining garage. The building comprises approximately 11,000 sq ft. and occupies the entire site. Current Zoning/Use: The site is currently used as for storage and restoration of antique furniture and artwork. The surrounding area is industrial. Historical Use: Since 1933 the building has been used for skein dying, dry cleaning and laundry operations. The site was acquired by Popular Hand Laundry (circa 1970) which operated dry cleaning services. Prior to 1970, a dry cleaning and laundry facility was operated by Klink. The site remedial program is being performed by 88 Ingraham Realty Corp. and Popular Hand Laundry and Cleaners of Richmond Hill, Inc. under the DEC's Voluntary Cleanup Program. Site Geology and Hydrogeology: Groundwater was detected at about 15 feet below grade, and measurements of groundwater elevation indicated that groundwater flow is to the north. "
Env Problem:	"Nature and extent of contamination: Post remediation: remediation at the site is complete. prior to remediation, the primary contaminants of concern were the chlorinated solvents tetrachloroethene and trichloroethene in soil, groundwater and soil vapor. Remediation has successfully achieved soil cleanup objectives for commercial and industrial use. Remaining contamination in soil vapor is being managed under a Site Management Plan. "
Health Problem:	"Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2009-10-06 08:02:00
Record Upd:	2013-09-20 14:17:00
Updated By:	ldennist
Own Op:	6
Sub Type:	03
Owner Name:	William Eisen
Owner Company:	88 ingraham Realty Corporation
Owner Address:	7700 Bella verde Way
Owner Addr2:	Not reported
Owner City,St,Zip:	Delray Beach, FL 33446
Owner Country:	United States of America
HW Code:	V00170
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00170
Waste Type:	tetrachloroethene (PCE)

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: W2-0813-98-06(R
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS

INST CONTROL:
Name: POPULAR HAND LAUNDRY
Address: 88 INGRAHM STREET
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58534
Control Name: Landuse Restriction
HW Code: V00170
Control Code: 25
Control Type: INST
Dt record added: 02/23/2016
Dt rec updated: 11/19/2019
Updated By: LSZINOMA
Site Code: 58534
Site Description: "Location: The site is located at 88 Ingraham Street in Brooklyn, NY. Site Features: It consists of a two story building with an adjoining garage. The building comprises approximately 11,000 sq ft. and occupies the entire site. Current Zoning/Use: The site is currently used as for storage and restoration of antique furniture and artwork. The surrounding area is industrial. Historical Use: Since 1933 the building has been used for skein dying, dry cleaning and laundry operations. The site was acquired by Popular Hand Laundry (circa 1970) which operated dry cleaning services. Prior to 1970, a dry cleaning and laundry facility was operated by Klink. The site remedial program is being performed by 88 Ingraham Realty Corp. and Popular Hand Laundry and Cleaners of Richmond Hill, Inc. under the DEC's Voluntary Cleanup Program. Site Geology and Hydrogeology: Groundwater was detected at about 15 feet below grade, and measurements of groundwater elevation indicated that groundwater flow is to the north. "
Env Problem: "Nature and extent of contamination: Post remediation: remediation at the site is complete. prior to remediation, the primary contaminants of concern were the chlorinated solvents tetrachloroethene and trichloroethene in soil, groundwater and soil vapor. Remediation has successfully achieved soil cleanup objectives for commercial and industrial use. Remaining contamination in soil vapor is being managed under a Site Management Plan. "
Health Problem: "Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site."
Dump: False

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-10-06 08:02:00
Record Upd: 2013-09-20 14:17:00
Updated By: ldennist
Own Op: 6
Sub Type: 03
Owner Name: William Eisen
Owner Company: 88 ingraham Realty Corporation
Owner Address: 7700 Bella verde Way
Owner Addr2: Not reported
Owner City,St,Zip: Delray Beach, FL 33446
Owner Country: United States of America
HW Code: V00170
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: W2-0813-98-06(R
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS

Name: POPULAR HAND LAUNDRY
Address: 88 INGRAHM STREET
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58534
Control Name: Soil Management Plan
HW Code: V00170
Control Code: 14
Control Type: INST
Dt record added: 02/23/2016
Dt rec updated: 11/19/2019
Updated By: LSZINOMA
Site Code: 58534
Site Description: "Location: The site is located at 88 Ingraham Street in Brooklyn, NY. Site Features: It consists of a two story building with an adjoining garage. The building comprises approximately 11,000 sq ft. and

88 INGRAHAM REALTY CORP (Continued) **1000425382**

occupies the entire site. Current Zoning/Use: The site is currently used as for storage and restoration of antique furniture and artwork. The surrounding area is industrial. Historical Use: Since 1933 the building has been used for skein dying, dry cleaning and laundry operations. The site was acquired by Popular Hand Laundry (circa 1970) which operated dry cleaning services. Prior to 1970, a dry cleaning and laundry facility was operated by Klink. The site remedial program is being performed by 88 Ingraham Realty Corp. and Popular Hand Laundry and Cleaners of Richmond Hill, Inc. under the DEC's Voluntary Cleanup Program. Site Geology and Hydrogeology: Groundwater was detected at about 15 feet below grade, and measurements of groundwater elevation indicated that groundwater flow is to the north. "

Env Problem: "Nature and extent of contamination: Post remediation: remediation at the site is complete. prior to remediation, the primary contaminants of concern were the chlorinated solvents tetrachloroethene and trichloroethene in soil, groundwater and soil vapor. Remediation has successfully achieved soil cleanup objectives for commercial and industrial use. Remaining contamination in soil vapor is being managed under a Site Management Plan. "

Health Problem: "Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site."

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-10-06 08:02:00
Record Upd: 2013-09-20 14:17:00
Updated By: ldennist
Own Op: 6
Sub Type: 03
Owner Name: William Eisen
Owner Company: 88 ingraham Realty Corporation
Owner Address: 7700 Bella verde Way
Owner Addr2: Not reported
Owner City,St,Zip: Delray Beach, FL 33446
Owner Country: United States of America
HW Code: V00170
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: Hazardous Substances

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: W2-0813-98-06(R
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS

Name: POPULAR HAND LAUNDRY
Address: 88 INGRAHM STREET
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58534
Control Name: IC/EC Plan
HW Code: V00170
Control Code: 34
Control Type: INST
Dt record added: 02/23/2016
Dt rec updated: 11/19/2019
Updated By: LSZINOMA
Site Code: 58534
Site Description: "Location: The site is located at 88 Ingraham Street in Brooklyn, NY. Site Features: It consists of a two story building with an adjoining garage. The building comprises approximately 11,000 sq ft. and occupies the entire site. Current Zoning/Use: The site is currently used as for storage and restoration of antique furniture and artwork. The surrounding area is industrial. Historical Use: Since 1933 the building has been used for skein dying, dry cleaning and laundry operations. The site was acquired by Popular Hand Laundry (circa 1970) which operated dry cleaning services. Prior to 1970, a dry cleaning and laundry facility was operated by Klink. The site remedial program is being performed by 88 Ingraham Realty Corp. and Popular Hand Laundry and Cleaners of Richmond Hill, Inc. under the DEC's Voluntary Cleanup Program. Site Geology and Hydrogeology: Groundwater was detected at about 15 feet below grade, and measurements of groundwater elevation indicated that groundwater flow is to the north. "
Env Problem: "Nature and extent of contamination: Post remediation: remediation at the site is complete. prior to remediation, the primary contaminants of concern were the chlorinated solvents tetrachloroethene and trichloroethene in soil, groundwater and soil vapor. Remediation has successfully achieved soil cleanup objectives for commercial and industrial use. Remaining contamination in soil vapor is being managed under a Site Management Plan. "
Health Problem: "Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site."
Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-10-06 08:02:00

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Record Upd: 2013-09-20 14:17:00
Updated By: ldennist
Own Op: 6
Sub Type: 03
Owner Name: William Eisen
Owner Company: 88 ingraham Realty Corporation
Owner Address: 7700 Bella verde Way
Owner Addr2: Not reported
Owner City,St,Zip: Delray Beach, FL 33446
Owner Country: United States of America
HW Code: V00170
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: W2-0813-98-06(R
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS

Name: POPULAR HAND LAUNDRY
Address: 88 INGRAHM STREET
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58534
Control Name: Ground Water Use Restriction
HW Code: V00170
Control Code: 08
Control Type: INST
Dt record added: 02/23/2016
Dt rec updated: 11/19/2019
Updated By: LSZINOMA
Site Code: 58534
Site Description: "Location: The site is located at 88 Ingraham Street in Brooklyn, NY. Site Features: It consists of a two story building with an adjoining garage. The building comprises approximately 11,000 sq ft. and occupies the entire site. Current Zoning/Use: The site is currently used as for storage and restoration of antique furniture and artwork. The surrounding area is industrial. Historical Use: Since 1933 the building has been used for skein dying, dry cleaning and laundry operations. The site was acquired by Popular Hand Laundry (circa 1970) which operated dry cleaning services. Prior to 1970, a dry cleaning and laundry facility was operated by Klink. The site remedial program is being performed by 88 Ingraham Realty Corp. and Popular Hand Laundry and Cleaners of Richmond Hill, Inc. under the

88 INGRAHAM REALTY CORP (Continued) **1000425382**

DEC's Voluntary Cleanup Program. Site Geology and Hydrogeology: Groundwater was detected at about 15 feet below grade, and measurements of groundwater elevation indicated that groundwater flow is to the north. "

Env Problem: "Nature and extent of contamination: Post remediation: remediation at the site is complete. prior to remediation, the primary contaminants of concern were the chlorinated solvents tetrachloroethene and trichloroethene in soil, groundwater and soil vapor. Remediation has successfully achieved soil cleanup objectives for commercial and industrial use. Remaining contamination in soil vapor is being managed under a Site Management Plan. "

Health Problem: "Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site."

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-10-06 08:02:00
Record Upd: 2013-09-20 14:17:00
Updated By: ldennist
Own Op: 6
Sub Type: 03
Owner Name: William Eisen
Owner Company: 88 ingraham Realty Corporation
Owner Address: 7700 Bella verde Way
Owner Addr2: Not reported
Owner City,St,Zip: Delray Beach, FL 33446
Owner Country: United States of America
HW Code: V00170
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: W2-0813-98-06(R
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Name:	POPULAR HAND LAUNDRY
Address:	88 INGRAHM STREET
City,State,Zip:	BROOKLYN, NY 11237
Site Code:	58534
Control Name:	Deed Restriction
HW Code:	V00170
Control Code:	A
Control Type:	INST
Dt record added:	02/23/2016
Dt rec updated:	11/19/2019
Updated By:	LSZINOMA
Site Code:	58534
Site Description:	"Location: The site is located at 88 Ingraham Street in Brooklyn, NY. Site Features: It consists of a two story building with an adjoining garage. The building comprises approximately 11,000 sq ft. and occupies the entire site. Current Zoning/Use: The site is currently used as for storage and restoration of antique furniture and artwork. The surrounding area is industrial. Historical Use: Since 1933 the building has been used for skein dying, dry cleaning and laundry operations. The site was acquired by Popular Hand Laundry (circa 1970) which operated dry cleaning services. Prior to 1970, a dry cleaning and laundry facility was operated by Klink. The site remedial program is being performed by 88 Ingraham Realty Corp. and Popular Hand Laundry and Cleaners of Richmond Hill, Inc. under the DEC's Voluntary Cleanup Program. Site Geology and Hydrogeology: Groundwater was detected at about 15 feet below grade, and measurements of groundwater elevation indicated that groundwater flow is to the north. "
Env Problem:	"Nature and extent of contamination: Post remediation: remediation at the site is complete. prior to remediation, the primary contaminants of concern were the chlorinated solvents tetrachloroethene and trichloroethene in soil, groundwater and soil vapor. Remediation has successfully achieved soil cleanup objectives for commercial and industrial use. Remaining contamination in soil vapor is being managed under a Site Management Plan. "
Health Problem:	"Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2009-10-06 08:02:00
Record Upd:	2013-09-20 14:17:00
Updated By:	ldennist
Own Op:	6
Sub Type:	03
Owner Name:	William Eisen
Owner Company:	88 ingraham Realty Corporation
Owner Address:	7700 Bella verde Way
Owner Addr2:	Not reported
Owner City,St,Zip:	Delray Beach, FL 33446

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Owner Country: United States of America
HW Code: V00170
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: W2-0813-98-06(R
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS

Name: POPULAR HAND LAUNDRY
Address: 88 INGRAHM STREET
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58534
Control Name: O&M Plan
HW Code: V00170
Control Code: 33
Control Type: INST
Dt record added: 02/23/2016
Dt rec updated: 11/19/2019
Updated By: LSZINOMA
Site Code: 58534
Site Description: "Location: The site is located at 88 Ingraham Street in Brooklyn, NY. Site Features: It consists of a two story building with an adjoining garage. The building comprises approximately 11,000 sq ft. and occupies the entire site. Current Zoning/Use: The site is currently used as for storage and restoration of antique furniture and artwork. The surrounding area is industrial. Historical Use: Since 1933 the building has been used for skein dying, dry cleaning and laundry operations. The site was acquired by Popular Hand Laundry (circa 1970) which operated dry cleaning services. Prior to 1970, a dry cleaning and laundry facility was operated by Klink. The site remedial program is being performed by 88 Ingraham Realty Corp. and Popular Hand Laundry and Cleaners of Richmond Hill, Inc. under the DEC's Voluntary Cleanup Program. Site Geology and Hydrogeology: Groundwater was detected at about 15 feet below grade, and measurements of groundwater elevation indicated that groundwater flow is to the north. "
Env Problem: "Nature and extent of contamination: Post remediation: remediation at the site is complete. prior to remediation, the primary contaminants of concern were the chlorinated solvents tetrachloroethene and trichloroethene in soil, groundwater and soil vapor. Remediation has successfully achieved soil cleanup objectives for commercial and

88 INGRAHAM REALTY CORP (Continued) **1000425382**

	industrial use. Remaining contamination in soil vapor is being managed under a Site Management Plan. "
Health Problem:	"Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2009-10-06 08:02:00
Record Upd:	2013-09-20 14:17:00
Updated By:	ldennist
Own Op:	6
Sub Type:	03
Owner Name:	William Eisen
Owner Company:	88 ingraham Realty Corporation
Owner Address:	7700 Bella verde Way
Owner Addr2:	Not reported
Owner City,St,Zip:	Delray Beach, FL 33446
Owner Country:	United States of America
HW Code:	V00170
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00170
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00170
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00170
Waste Type:	Hazardous Substances
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	W2-0813-98-06(R
Cross Ref Type Code:	20
Cross Ref Type:	Haz. Substance ID
Record Added Date:	2000-11-30 16:07:00
Record Updated:	2005-02-24 15:54:00
Updated By:	VCPTRANS

Name:	POPULAR HAND LAUNDRY
Address:	88 INGRAHM STREET
City,State,Zip:	BROOKLYN, NY 11237
Site Code:	58534
Control Name:	Site Management Plan
HW Code:	V00170
Control Code:	32
Control Type:	INST
Dt record added:	02/23/2016

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Dt rec updated:	11/19/2019
Updated By:	LSZINOMA
Site Code:	58534
Site Description:	"Location: The site is located at 88 Ingraham Street in Brooklyn, NY. Site Features: It consists of a two story building with an adjoining garage. The building comprises approximately 11,000 sq ft. and occupies the entire site. Current Zoning/Use: The site is currently used as for storage and restoration of antique furniture and artwork. The surrounding area is industrial. Historical Use: Since 1933 the building has been used for skein dying, dry cleaning and laundry operations. The site was acquired by Popular Hand Laundry (circa 1970) which operated dry cleaning services. Prior to 1970, a dry cleaning and laundry facility was operated by Klink. The site remedial program is being performed by 88 Ingraham Realty Corp. and Popular Hand Laundry and Cleaners of Richmond Hill, Inc. under the DEC's Voluntary Cleanup Program. Site Geology and Hydrogeology: Groundwater was detected at about 15 feet below grade, and measurements of groundwater elevation indicated that groundwater flow is to the north. "
Env Problem:	"Nature and extent of contamination: Post remediation: remediation at the site is complete. prior to remediation, the primary contaminants of concern were the chlorinated solvents tetrachloroethene and trichloroethene in soil, groundwater and soil vapor. Remediation has successfully achieved soil cleanup objectives for commercial and industrial use. Remaining contamination in soil vapor is being managed under a Site Management Plan. "
Health Problem:	"Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2009-10-06 08:02:00
Record Upd:	2013-09-20 14:17:00
Updated By:	ldennist
Own Op:	6
Sub Type:	03
Owner Name:	William Eisen
Owner Company:	88 ingraham Realty Corporation
Owner Address:	7700 Bella verde Way
Owner Addr2:	Not reported
Owner City,St,Zip:	Delray Beach, FL 33446
Owner Country:	United States of America
HW Code:	V00170
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00170
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported

88 INGRAHAM REALTY CORP (Continued) **1000425382**

HW Code: V00170
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: W2-0813-98-06(R
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS

Name: POPULAR HAND LAUNDRY
Address: 88 INGRAHM STREET
City,State,Zip: BROOKLYN, NY 11237
Site Code: 58534
Control Name: Monitoring Plan
HW Code: V00170
Control Code: 31
Control Type: INST
Dt record added: 02/23/2016
Dt rec updated: 11/19/2019
Updated By: LSZINOMA
Site Code: 58534
Site Description: "Location: The site is located at 88 Ingraham Street in Brooklyn, NY. Site Features: It consists of a two story building with an adjoining garage. The building comprises approximately 11,000 sq ft. and occupies the entire site. Current Zoning/Use: The site is currently used as for storage and restoration of antique furniture and artwork. The surrounding area is industrial. Historical Use: Since 1933 the building has been used for skein dying, dry cleaning and laundry operations. The site was acquired by Popular Hand Laundry (circa 1970) which operated dry cleaning services. Prior to 1970, a dry cleaning and laundry facility was operated by Klink. The site remedial program is being performed by 88 Ingraham Realty Corp. and Popular Hand Laundry and Cleaners of Richmond Hill, Inc. under the DEC's Voluntary Cleanup Program. Site Geology and Hydrogeology: Groundwater was detected at about 15 feet below grade, and measurements of groundwater elevation indicated that groundwater flow is to the north. "
Env Problem: "Nature and extent of contamination: Post remediation: remediation at the site is complete. prior to remediation, the primary contaminants of concern were the chlorinated solvents tetrachloroethene and trichloroethene in soil, groundwater and soil vapor. Remediation has successfully achieved soil cleanup objectives for commercial and industrial use. Remaining contamination in soil vapor is being managed under a Site Management Plan. "
Health Problem: "Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site."
Dump: False
Structure: False
Lagoon: False
Landfill: False

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2009-10-06 08:02:00
Record Upd: 2013-09-20 14:17:00
Updated By: ldennist
Own Op: 6
Sub Type: 03
Owner Name: William Eisen
Owner Company: 88 ingraham Realty Corporation
Owner Address: 7700 Bella verde Way
Owner Addr2: Not reported
Owner City,St,Zip: Delray Beach, FL 33446
Owner Country: United States of America
HW Code: V00170
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: V00170
Waste Type: Hazardous Substances
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: W2-0813-98-06(R
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS

VCP:
Name: POPULAR HAND LAUNDRY
Address: 88 INGRAHM STREET
City,State,Zip: BROOKLYN, NY 11237
Program Type: VCP
Site Code: 58534
HW Code: V00170
Site Class: C
SWIS: 2401
Region: 2
Town: New York City
Acres: Not reported
Date Record Added: 11/30/2000
Date Record Updated: 02/27/2018
Updated By: JHOCONNE
Site Description: "Location: The site is located at 88 Ingraham Street in Brooklyn, NY. Site Features: It consists of a two story building with an adjoining garage. The building comprises approximately 11,000 sq ft. and

88 INGRAHAM REALTY CORP (Continued) **1000425382**

	occupies the entire site. Current Zoning/Use: The site is currently used as for storage and restoration of antique furniture and artwork. The surrounding area is industrial. Historical Use: Since 1933 the building has been used for skein dying, dry cleaning and laundry operations. The site was acquired by Popular Hand Laundry (circa 1970) which operated dry cleaning services. Prior to 1970, a dry cleaning and laundry facility was operated by Klink. The site remedial program is being performed by 88 Ingraham Realty Corp. and Popular Hand Laundry and Cleaners of Richmond Hill, Inc. under the DEC's Voluntary Cleanup Program. Site Geology and Hydrogeology: Groundwater was detected at about 15 feet below grade, and measurements of groundwater elevation indicated that groundwater flow is to the north. "
Env Problem:	"Nature and extent of contamination: Post remediation: remediation at the site is complete. prior to remediation, the primary contaminants of concern were the chlorinated solvents tetrachloroethene and trichloroethene in soil, groundwater and soil vapor. Remediation has successfully achieved soil cleanup objectives for commercial and industrial use. Remaining contamination in soil vapor is being managed under a Site Management Plan. "
Health Problem:	"Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2009-10-06 08:02:00
Record Upd:	2013-09-20 14:17:00
Updated By:	ldennist
Own Op:	6
Sub Type:	03
Owner Name:	William Eisen
Owner Company:	88 ingraham Realty Corporation
Owner Address:	7700 Bella verde Way
Owner Addr2:	Not reported
Owner City,St,Zip:	Delray Beach, FL 33446
Owner Country:	United States of America
HW Code:	V00170
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00170
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00170
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	V00170
Waste Type:	Hazardous Substances

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: W2-0813-98-06(R
Cross Ref Type Code: 20
Cross Ref Type: Haz. Substance ID
Record Added Date: 2000-11-30 16:07:00
Record Updated: 2005-02-24 15:54:00
Updated By: VCPTRANS

NY MANIFEST:
Name: POPULAR UNIFORM RENTAL
Address: 88 INGRAHM ST
City,State,Zip: BROOKLYN, NY 11237-1479
Country: USA
EPA ID: NYD020592838
Facility Status: Not reported
Location Address 1: 88 INGRAHM ST
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11237
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD020592838
Mailing Name: POPULAR UNIFORM RENTAL
Mailing Contact: POPULAR UNIFORM RENTAL
Mailing Address 1: 88 INGRAHM STREET
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11237
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 7184973000

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2018
Trans1 State ID: NYR000134957
Trans2 State ID: PAD982661381
Generator Ship Date: 12/12/2013
Trans1 Recv Date: 12/12/2013
Trans2 Recv Date: 12/13/2013
TSD Site Recv Date: 01/03/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD020592838
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: MID980615298
TSDF ID 2: Not reported
Manifest Tracking Number: 011979923JJK

88 INGRAHAM REALTY CORP (Continued) **1000425382**

Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	300
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Waste Code:	D039
Waste Code 1_2:	D043
Waste Code 1_3:	F002
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

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229 **EMPIRE WAREHOUSE** **NY LTANKS** **S104278053**
ESE **1312-1324 FLUSHING AVE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.387 mi.
2041 ft.

Relative:
Higher

Actual:
23 ft.

LTANKS:

Name:	EMPIRE WAREHOUSE
Address:	1312-1324 FLUSHING AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9903972 / 2000-08-23
Facility ID:	9903972
Site ID:	111006
Spill Date:	1999-07-06
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1999-07-06
CID:	282
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False

EMPIRE WAREHOUSE (Continued) **S104278053**

Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1999-07-06
Spill Record Last Update:	2000-08-23
Spiller Name:	JOE CARDONE
Spiller Company:	EMPIRE WAREHOUSE
Spiller Address:	1312-1324 FLUSHING AVE
Spiller County:	001
Spiller Contact:	JOE CARDONE
Spiller Phone:	(718) 366-7500
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	97140
DEC Memo:	""
Remarks:	"TANK FAILED THE TEST."

All TTF:

Facility ID:	9903972
Spill Number:	9903972
Spill Tank Test:	1547341
Site ID:	111006
Tank Number:	1
Tank Size:	7500
Material:	0002
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	111006
Operable Unit ID:	1078415
Operable Unit:	01
Material ID:	303871
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AJ230 **CORNELL BEVERAGES INC** **NY LTANKS** **U000394301**
South **105 HARRISON PLACE** **NY UST** **N/A**
1/4-1/2 **BROOKLYN, NY 11237**
0.393 mi.
2074 ft. **Site 4 of 4 in cluster AJ**

Relative: **Higher**

Actual: **20 ft.**

LTANKS:

Name:	COMMERCIAL
Address:	105 HARRISON PLACE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0706869 / 2008-10-17
Facility ID:	0706869
Site ID:	387468
Spill Date:	2007-09-20
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	bkfalvey
Referred To:	Not reported
Reported to Dept:	2007-09-20
CID:	444
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2007-09-20
Spill Record Last Update:	2008-10-17
Spiller Name:	ALLEN HOFFMAN
Spiller Company:	COMMERCIAL
Spiller Address:	105 HARRISON PLACE
Spiller County:	001
Spiller Contact:	ALLEN HOFFMAN
Spiller Phone:	(718) 381-3000
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	83354
DEC Memo:	"9/21/07 bf: Called Allan Hoffman 718-381-3000 and left message to call me back. Sent ttf letter to: Allan Hoffman Cornell Beverages, Inc. 105 Harrison Place Brooklyn, NY 11237 9/24/07 Received call from Donna Hoffman. Tank failed with a dry leak and the tank is ot in use at this time. She said that she they are working on the repair or closure of the tank. They are not sure which they want to do at this time. She did not know how to proceed on repairs. I told her that her tank company may do repairs and she should contact them or another company. She also wanted to know about closure. I told her it would need to be emptied and cleaned prior to filling it with sand, cement, or foam. If it's removed in place, it would also need emptying and cleaning prior to its removal. I told her I sent Allan Hoffman a letter on Friday explaining how to proceed. bf 10/31/07 On 10/12/07, received letter from A. Hoffman. They are in the process of locating a company to do the repair work. They only fill the tank half full and that was the approximate level at which the test was performed. Leak is a dry leak. he will be having surgery on 10/16 and will be recovering two weeks after that. bf 11/8/07 Received call from A.

CORNELL BEVERAGES INC (Continued) **U000394301**

Hoffman. He requested a list of contractors to repair tank. I faxed him the list and disclaimer. Fax:718-381-3001. bf 4/11/08 received letter from Allan Hoffman of Cornell. Fill box was replaced by Empire Fuel and the work order was attached. Passing tank test results were also attached. 10/15/08 Informed by Alan Hoffman that fill box is above ground so any spills would be visible. bf"

Remarks: "PBS No: 2-069787 "

All TTF:

Facility ID:	0706869
Spill Number:	0706869
Spill Tank Test:	1764122
Site ID:	387468
Tank Number:	1
Tank Size:	3000
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified Date:	Not reported

All Materials:

Site ID:	387468
Operable Unit ID:	1144670
Operable Unit:	01
Material ID:	2134979
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Name:	CORNELL BEVERAGES
Address:	105 HARRISON PLACE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9610865 / 2008-10-17
Facility ID:	9610865
Site ID:	92955
Spill Date:	1996-12-03
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	1996-12-03

CORNELL BEVERAGES INC (Continued) **U000394301**

CID:	266
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1996-12-03
Spill Record Last Update:	2008-10-22
Spiller Name:	ALLAN HOFFMAN
Spiller Company:	CORNELL BEVERAGES
Spiller Address:	105 HARRISON PLACE
Spiller County:	001
Spiller Contact:	ALLAN HOFFMAN
Spiller Phone:	(718) 381-3000
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	83354
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MULQUEEN 6/30/97 - sent letter 06/16/06: This spill is transferred from Mike Mulqueen to Mr. Koon Tang. 10/17/08 This case is being closed partly because of lack of information. Tank passed subsequent tests. Property owner, Allan hoffman states in 10/17/08 letter that vent pipe was the cause of failure. He has no other information. bf"
Remarks:	"SPILLER TO BE NOTIFIED. FURTHER TESTING UP TO SPILLER."

All TTF:

Facility ID:	9610865
Spill Number:	9610865
Spill Tank Test:	1544907
Site ID:	92955
Tank Number:	Not reported
Tank Size:	3000
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	F
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	92955
Operable Unit ID:	1038767
Operable Unit:	01
Material ID:	343084
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G

CORNELL BEVERAGES INC (Continued) **U000394301**

Recovered: .00
Oxygenate: Not reported

UST:
Name: CORNELL BEVERAGES INC
Address: 105 HARRISON PLACE
City,State,Zip: BROOKLYN, NY 11237
Id/Status: 2-069787 / Active
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 01/14/2022
UTM X: 590446.68782
UTM Y: 4506770.24224
Site Type: Manufacturing (Other than Chemical)/Processing

Affiliation Records:
Site Id: 1507
Affiliation Type: Mail Contact
Company Name: CORNELL BEVERAGES INC
Contact Type: VICE PRESIDENT
Contact Name: ALLAN HOFFMAN
Address1: 105 HARRISON PLACE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11237
Country Code: 001
Phone: (718) 381-3000
EMail: ALLAN@CORNELLBEV.COM
Fax Number: Not reported
Modified By: DMPOKRZY
Date Last Modified: 2017-03-06

Site Id: 1507
Affiliation Type: Facility Operator
Company Name: CORNELL BEVERAGES INC
Contact Type: Not reported
Contact Name: ALLAN HOFFMAN
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 381-3000
EMail: Not reported
Fax Number: Not reported
Modified By: DXLIVING
Date Last Modified: 2006-11-01

Site Id: 1507
Affiliation Type: Emergency Contact
Company Name: CORNELL BEVERAGES INC
Contact Type: Not reported
Contact Name: ALLAN HOFFMAN

CORNELL BEVERAGES INC (Continued) **U000394301**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 381-3000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DXLIVING
Date Last Modified:	2006-11-01

Site Id:	1507
Affiliation Type:	Facility Owner
Company Name:	STHM REALTY CORP
Contact Type:	VICE PRESIDENT
Contact Name:	ALLAN HOFFMAN
Address1:	105 HARRISON PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 381-3000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-03-06

Tank Info:

Tank Number:	001
Tank ID:	2581
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	3000
Install Date:	01/01/1960
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	99
Date Test:	12/22/2016
Next Test Date:	12/22/2017
Pipe Model:	Not reported
Modified By:	TankSys
Last Modified:	04/27/2020

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

CORNELL BEVERAGES INC (Continued) **U000394301**

I04 - Overfill - Product Level Gauge (A/G)
L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser
C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle

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231 **308 MAUJER ST** **NY LTANKS** **S105999626**
West **308 MAUJER ST** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.393 mi.
2077 ft.

Relative: **Higher**

Actual: **29 ft.**

LTANKS:

Name:	308 MAUJER ST
Address:	308 MAUJER ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0305120 / 2006-01-31
Facility ID:	0305120
Site ID:	144741
Spill Date:	2003-08-14
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	JBLISTER
Referred To:	Not reported
Reported to Dept:	2003-08-14
CID:	216
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2003-08-14
Spill Record Last Update:	2006-01-31
Spiller Name:	Not reported
Spiller Company:	FRED GELFAR
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	FRED GELFAR
Spiller Phone:	(516) 455-4775
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	123363
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND Will send a TTF as soon as RP provides a proper mailing address 8/19/2003 TTF Letter sent to: Fred Gelfar 2941 Charlotte Drive Merrick, NY 11566 1/31/06 Received copy of 10/04/04 tightness report showing tank passed. Closed spill out based on report. J Lister"
Remarks:	"TANK TEST FAILURE THEY WILL RETEST "

308 MAUJER ST (Continued) **S105999626**

All TTF:

Facility ID:	0305120
Spill Number:	0305120
Spill Tank Test:	1528589
Site ID:	144741
Tank Number:	1
Tank Size:	2000
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

AM232 **NATIONWIDE SCRAP LLC** **NY SWRCY** **S116357466**
ESE **18-19 FLUSHING AVENUE** **N/A**
1/4-1/2 **RIDGEWOOD, NY 11385**
0.404 mi.
2132 ft. **Site 2 of 2 in cluster AM**

Relative:
Higher

Actual:
24 ft.

SWRCY:

Name:	NATIONWIDE SCRAP LLC
Address:	18-19 FLUSHING AVENUE
City,State,Zip:	RIDGEWOOD, NY 11385
Region:	2
Facility Address 2:	Not reported
Phone Number:	5167757922
Owner Type:	Private
Owner Name:	Nationwide Scrap LLC
Owner Address:	18-19 Flushing Ave
Owner Address 2:	Not reported
Owner City,St,Zip:	Ridgewood, NY 11385
Owner Email:	Not reported
Owner Phone:	7182335069
Contact Name:	Margaret Ferrante
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	nationwidescrap@yahoo.com
Contact Phone:	7182335069
Activity Desc:	RHRF - registration
Activity Number:	[41MA7]
Active:	No
East Coordinate:	591145
North Coordinate:	4507293
Accuracy Code:	Not reported
Regulatory Status:	Registration
Permit #:	41MA7
Auth. Date:	Not reported
Expiration Date:	Not reported
Waste Types:	Source Separated Recyclables (Metal/Glass/Paper/Plastic);Commingled

NATIONWIDE SCRAP LLC (Continued) **S116357466**

Paper;Paper / Cardboard;Office Paper;PET;Plastics
Operator Name: Not reported
Operator Type: Not reported
Last Date: 12/12/2016

233
SSW
1/4-1/2
0.406 mi.
2143 ft.

KORNBLUM, SIDNEY
394 JOHNSON AVE.
BROOKLYN, NY 11206

SEMS-ARCHIVE **1018149164**
LEAD SMELTERS **NYN000206627**

Relative:
Higher

Actual:
19 ft.

SEMS Archive:
Site ID: 0206627
EPA ID: NYN000206627
Name: KORNBLUM, SIDNEY
Address: 394 JOHNSON AVE.
Address 2: Not reported
City,State,Zip: BROOKLYN, NY 11206
Cong District: Not reported
FIPS Code: 36047
FF: N
NPL: Not on the NPL
Non NPL Status: Referred to Removal - NFRAP

SEMS Archive Detail:
Region: 02
Site ID: 0206627
EPA ID: NYN000206627
Site Name: KORNBLUM, SIDNEY
NPL: N
FF: N
OU: 00
Action Code: HX
Action Name: PRE-CERC
SEQ: 1
Start Date: 2012-10-19 04:00:00
Finish Date: 2012-10-19 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 02
Site ID: 0206627
EPA ID: NYN000206627
Site Name: KORNBLUM, SIDNEY
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 2014-05-16 05:00:00
Finish Date: 2014-05-16 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 02
Site ID: 0206627
EPA ID: NYN000206627

KORNBLUM, SIDNEY (Continued) **1018149164**

Site Name:	KORNBLUM, SIDNEY
NPL:	N
FF:	N
OU:	00
Action Code:	HX
Action Name:	PRE-CERC
SEQ:	3
Start Date:	2014-05-16 05:00:00
Finish Date:	2014-05-16 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	02
Site ID:	0206627
EPA ID:	NYN000206627
Site Name:	KORNBLUM, SIDNEY
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	2014-10-16 05:00:00
Finish Date:	2014-10-16 05:00:00
Qual:	H
Current Action Lead:	EPA Perf

Region:	02
Site ID:	0206627
EPA ID:	NYN000206627
Site Name:	KORNBLUM, SIDNEY
NPL:	N
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	2014-10-01 05:00:00
Finish Date:	2015-03-31 05:00:00
Qual:	N
Current Action Lead:	EPA Perf

Region:	02
Site ID:	0206627
EPA ID:	NYN000206627
Site Name:	KORNBLUM, SIDNEY
NPL:	N
FF:	N
OU:	00
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	1
Start Date:	2014-10-30 04:00:00
Finish Date:	2016-11-23 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

KORNBLUM, SIDNEY (Continued) **1018149164**

Lead Smelter Sites:

Site ID:	206627
Facility Region Id:	2
Latitude:	Not reported
Longitude:	Not reported
CoC Ind:	Not reported
Contaminant Name:	Not reported
FF Ind:	N
NAI:	N
Non-Primary Site-Sub Type:	Not reported
NPL:	Not on the NPL
Primary Site-Sub Type:	Metal fabrication/finishing/coating and allied industries (Manufacturing/Processing/Maintenance)
Special Initiative:	Unrecognized Smelter per 2001 Report

AN234 **MS POWER INC** **NY SWF/LF** **S108146009**
NW **187 MASPETH VE** **N/A**
1/4-1/2 **BROOKLYN, NY 11211**
0.422 mi.
2229 ft. **Site 1 of 3 in cluster AN**

Relative: **Higher**
Actual: **18 ft.**

SWF/LF:

Name:	MS POWER INC
Address:	187 MASPETH VE
City,State,Zip:	BROOKLYN, NY 11211
Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling Facility
Activity Number:	Not reported
Active:	No
East Coordinate:	589950
North Coordinate:	4507862
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

AN235
NW
1/4-1/2
0.422 mi.
2229 ft.

MAGNUM BODY SHOP INC
185A MASPETH AVE
BROOKLYN, NY 11211

Site 2 of 3 in cluster AN

NY SWF/LF **S107785410**
N/A

Relative:
Higher

Actual:
18 ft.

SWF/LF:

Name:	MAGNUM BODY SHOP INC
Address:	185A MASPETH AVE
City,State,Zip:	BROOKLYN, NY 11211
Flag:	INACTIVE
Region Code:	2
Phone Number:	7183029792
Owner Name:	Bart Buchman
Owner Type:	Private
Owner Address:	185A Maspeth Ave
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Email:	bartautosmart@yahoo.com
Owner Phone:	7184153315
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling Facility
Activity Number:	[7091251]
Active:	No
East Coordinate:	589945
North Coordinate:	4507859
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

236
SSW
1/4-1/2
0.430 mi.
2271 ft.

U. S. WASTE MANAGEMENT; INC.
48 KNICKERBOCKER (69 INGRAHAM ST)
BROOKLYN, NY 11237

NY SWF/LF **S105841758**
N/A

Relative:
Higher

Actual:
22 ft.

SWF/LF:

Name:	U. S. WASTE MANAGEMENT; INC.
Address:	48 KNICKERBOCKER (69 INGRAHAM ST)
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	7188212422
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported

U. S. WASTE MANAGEMENT; INC. (Continued) **S105841758**

Owner Phone:	Not reported
Contact Name:	PETER SANTOS; PRESIDENT
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24TA4]
Active:	No
East Coordinate:	590400
North Coordinate:	4506700
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6104-00176
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

AN237 **BUG, EQUITY WORKS** **NY HSWDS** **S102872851**
WNW **MASPETH AND MORGAN AVENUES** **N/A**
1/4-1/2 **BROOKLYN, NY 11222**
0.434 mi.
2289 ft. **Site 3 of 3 in cluster AN**

Relative:
Higher

Actual:
18 ft.

HSWDS:

Facility ID:	HS2009
Region:	2
Facility Status:	Unknown
Owner Type:	Publ Utily
Owner:	(formerly) Brooklyn Union Gas
Owner Address:	195 Montague Street
Owner Phone:	(718)403-3053
Operator Type:	Unknown
Operator:	Unknown
Operator:	Unknown
Operator Phone:	Unknown
EPA ID:	NYD980532048
Registry:	Not on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID:	Unknown
RCRA Permitted:	Unknown
Site Code:	Coal Gasification Plant
Owner City State:	Brooklyn
Operator City State:	Not reported
Quadrange:	Unknown
Latitude:	40 43 00 N
Longitude:	73 56 15 W
Acres:	0.00
Operator Date:	1896
Close Date:	1928
Completed:	PA
Active:	No
PCB's Disposed:	Unknown
Pesticides Disposed:	No
Metals Disposed:	No

BUG, EQUITY WORKS (Continued) **S102872851**

Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	No
Semi Volatile Organic Compounds Disposed:	No
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	None
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Environmental
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	Unknown
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Unknown
Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	Not reported
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	Not reported
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

AO238 **UNIVERSAL SCRAP PROCESSORS CORP** **NY SWF/LF** **S111072463**
SSE **27 STEWART AVE** **NY Spills** **N/A**
1/4-1/2 **BROOKLYN, NY 11237** **NY SPDES**
0.441 mi.
2329 ft. **Site 1 of 2 in cluster AO**

Relative:
Higher

Actual:
17 ft.

SWF/LF:

Name:	UNIVERSAL SCRAP PROCESSORS CORP
Address:	27 STEWART AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	7183812234
Owner Name:	Universal Scrap Processors Corp
Owner Type:	Private
Owner Address:	27 Stewart Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	universalscrapprocessor@gmail.com
Owner Phone:	7183812234
Contact Name:	James Ruggiero
Contact Address:	27 Steward Avenue
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY 11237
Contact Email:	universalscrapprocessors@gmail.com
Contact Phone:	7183812234
Activity Desc:	Vehicle Dismantling Facility
Activity Number:	[7106524]
Active:	No
East Coordinate:	590778
North Coordinate:	4506792
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Universal Scrap Processors Corp
Operator Type:	Private
Laste Date:	Not reported

SPILLS:

Name:	UNIVERSAL SCRAP PROCESSOR
Address:	27 STEWART AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1305242 / 2017-10-05
Facility ID:	1305242
Facility Type:	ER
DER Facility ID:	440924
Site ID:	485801
DEC Region:	2
Spill Cause:	Housekeeping
Spill Class:	C3
SWIS:	2401
Spill Date:	2013-08-14
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	2013-08-14
CID:	Not reported

UNIVERSAL SCRAP PROCESSORS CORP (Continued) **S111072463**

Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2013-08-14
Spill Record Last Update:	2017-10-05
Spiller Name:	NORMAN TEICLER
Spiller Company:	UNIVERSAL SCRAP PROCESSOR
Spiller Address:	27 STEWART AVE
Spiller Company:	999
Contact Name:	NORMAN TEICLER
DEC Memo:	"4/4/16 - See BCP C224210, K. Forster, PM. Spill to remain open until BCP complete. 10/5/17 TJD Site inspection. The former junk yard operating at this address is no longer in business. All structures have been removed from the property and the parcel is now vacant. As per above note this site is in the BCP program which is being managed by Central Office DER staff. Following the inspection, DeMeo (R2) contacted Forster (CO) regarding this reported housekeeping condition at a former junk yard site - based upon staff discussions the following decision has been made. Spill 1305242 is closed and cross-referenced to spill 0510000. CO DER staff will manage both the spill and BCP project simultaneously. "
Remarks:	"sheen noted on water, c/u pending, DEC Inspection"

All Materials:

Site ID:	485801
Operable Unit ID:	1235458
Operable Unit:	01
Material ID:	2234716
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.25
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

SPDES:

Name:	UNIVERSAL SCRAP PROCESSORS CORP
Address:	27 STEWART AVE
City,State,Zip:	BROOKLYN, NY 11237
Permit Number:	NYR00E020
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor
Primary Facility SIC Code:	5093
State Water Body Name:	ENGLISH KILLS
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported

UNIVERSAL SCRAP PROCESSORS CORP (Continued) **S111072463**

Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.706 / -73.925
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	TABS CONSULTING GROUP INC
Non-Gov Permit Street Address:	UNIVERSAL SCRAP PROCESSORS CORP
Non-Gov Permit Supplemental Location:	2 52ND ST, BOX B11
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11232
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNIVERSAL SCRAP PROCESSORS CORP
Non-Gov Facility Street Address:	UNIVERSAL SCRAP PROCESSORS CORP
Non-Gov Facility Supplemental Location:	27 STEWART AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	UNIVERSAL SCRAP PROCESSORS CORP
Address:	27 STEWART AVE
City,State,Zip:	BROOKLYN, NY 11237
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	UNIVERSAL SCRAP PROCESSORS CORP
Non-Gov Permit Street Address:	27 STEWART AVE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11237
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNIVERSAL SCRAP PROCESSORS CORP
Non-Gov Facility Street Address:	UNIVERSAL SCRAP PROCESSORS CORP
Non-Gov Facility Supplemental Location:	27 STEWART AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported

UNIVERSAL SCRAP PROCESSORS CORP (Continued) **S111072463**

Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Name:	UNIVERSAL SCRAP PROCESSORS CORP
Address:	27 STEWART AVE
City,State,Zip:	BROOKLYN, NY 11237
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY047
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNIVERSAL SCRAP PROCESSORS CORP
Non-Gov Facility Street Address:	UNIVERSAL SCRAP PROCESSORS CORP
Non-Gov Facility Supplemental Location:	27 STEWART AVE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11237
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported

239
East
1/4-1/2
0.443 mi.
2341 ft.

47-40 METROPOLITAN AVE **NY LTANKS** **S101658341**
47-40 METROPOLITAN AVE **N/A**
QUEENS, NY

Relative:
Higher

Actual:
18 ft.

LTANKS:

Name:	47-40 METROPOLITAN AVE
Address:	47-40 METROPOLITAN AVE
City,State,Zip:	QUEENS, NY
Spill Number/Closed Date:	9502665 / 2000-07-21
Facility ID:	9502665
Site ID:	330742
Spill Date:	1995-06-01
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	4101
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1995-06-01

47-40 METROPOLITAN AVE (Continued) **S101658341**

CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1995-06-16
Spill Record Last Update:	2000-07-21
Spiller Name:	MS CAROLE LEISTMAN
Spiller Company:	CHEMICAL BANK, FIDUCIARY
Spiller Address:	270 PARK AVENUE, 20TH FL
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	266022
DEC Memo:	""
Remarks:	"ON CONCRETE FLOOR - SMALL LEAK - FAILED AIR TEST"

All TTF:

Facility ID:	9502665
Spill Number:	9502665
Spill Tank Test:	1543880
Site ID:	330742
Tank Number:	Not reported
Tank Size:	0
Material:	0002
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	330742
Operable Unit ID:	1013891
Operable Unit:	01
Material ID:	367723
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AP240 **M & C TRANSFER STATION;INC.** **NY SWF/LF** **S105841784**
NE **58-26 47 STREET** **N/A**
1/4-1/2 **WEST MASPETH, NY 11378**
0.445 mi.
2352 ft. **Site 1 of 3 in cluster AP**

Relative: **Lower**
Actual: **7 ft.**

SWF/LF:

Name:	M & C TRANSFER STATION;INC.
Address:	58-26 47 STREET
City,State,Zip:	WEST MASPETH, NY 11378
Flag:	INACTIVE
Region Code:	2
Phone Number:	7184175185
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	THONY MESSINA
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[41T42]
Active:	No
East Coordinate:	591000
North Coordinate:	4508800
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6304-00157
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

AP241 **NMS WASTE PAPER** **NY SWRCY** **S105842307**
NE **58-35 47TH STREET** **NY Spills** **N/A**
1/4-1/2 **MASPETH, NY 11378**
0.452 mi.
2384 ft. **Site 2 of 3 in cluster AP**

Relative: **Lower**
Actual: **13 ft.**

SWRCY:

Name:	NMS WASTE PAPER
Address:	58-35 47TH STREET
City,State,Zip:	MASPETH, NY 11378
Region:	2
Facility Address 2:	Not reported
Phone Number:	7183811319
Owner Type:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported

NMS WASTE PAPER (Continued) **S105842307**

Owner Phone:	Not reported
Contact Name:	MICHAEL J. SINISI
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	RHRF - registration
Activity Number:	[41M13]
Active:	No
East Coordinate:	591200
North Coordinate:	4508400
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Permit #:	2-6304-00296
Auth. Date:	8/21/1992
Expiration Date:	8/21/1997
Waste Types:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Last Date:	Not reported

SPILLS:

Name:	WASTE PAPER REMOVAL COMPA
Address:	58-35 47TH STREET
City,State,Zip:	MASPETH QUEENS, NY
Spill Number/Closed Date:	0404192 / 2005-01-31
Facility ID:	0404192
Facility Type:	ER
DER Facility ID:	229102
Site ID:	282212
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	4101
Spill Date:	2004-07-19
Investigator:	MXTIPPLE
Referred To:	Not reported
Reported to Dept:	2004-07-19
CID:	408
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2004-07-19
Spill Record Last Update:	2005-02-01
Spiller Name:	JOEL ADRIAN
Spiller Company:	SHOCK WOODFORD COMPANY
Spiller Address:	5 WEST MAIN ST SUITE 109
Spiller Company:	001
Contact Name:	JOEL ADRIAN
DEC Memo:	"12/23/04 Tipple updating//all prior notes lost in database// Tipple

NMS WASTE PAPER (Continued) **S105842307**

has conducted two site visits, the last of which was 12/22 PM. There had been a machinery problem in the recycling facility which required the excavation of a large area of the floor. Tipple met with Joel Adrian of the Jacques Whitford company to conduct a visual/ olfactory inspection of the excavation. The excavation was approximately 20-25' long by 10-12' wide and extended about 6 foot below the floor surface. The excavation revealed no visual, olfactory /PID evidence of petroleum products, what the excavation did reveal was broken brick, some concrete, glass and what I observed to be clean brown soil. Jacques Whitford will grab one sample from this excavation and advance two geoprobe borings to groundwater and collect samples from the soil/water interface. The results of the three above described samples will be used to determine weather any additional actions will be required. 12/29/04 tipple delivering a STIP and CAP to the site while the two additional borings are being advanced. Upon arrival at the site, the Rig was too large to maneuver through the available space, the additional borings have been tentatively rescheduled for next Tuesday Jan. 4, 05 1/31/05 reviewed submission, discussed with DEC Attorney Nehila, Oliva & Nehila ok with closing if data is ok. Data has some SVOC exceedances which can be associated with the broken asphalt pieces in the urban fill material which I witnessed in the excavation. NFA letter written including a caveat which reads if excavation is to proceed, a health and safety plan must be followed. "
Not reported
Remarks: "11/18/04 site mtg. with contractor, purchaser, and agent. Discussed the future actions necessary to attain a NFA."

All Materials:
Site ID: 282212
Operable Unit ID: 887419
Operable Unit: 01
Material ID: 488202
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: L
Recovered: .00
Oxygenate: Not reported

AP242 **GPB WASTE NY DBA NY/NJ RECYCLING (FORMERLY RAPID P** **NY SWRCY** **S120839218**
NE **58-35 47TH STREET** **N/A**
1/4-1/2 **MASPETH, NY 11378**
0.452 mi.
2384 ft. **Site 3 of 3 in cluster AP**

Relative: **Lower**
Actual: **13 ft.**

SWRCY:
Name: GPB WASTE NY DBA NY/NJ RECYCLING (FORMERLY RAPID PROCESSING)
Address: 58-35 47TH STREET
City,State,Zip: MASPETH, NY 11378
Region: 2
Facility Address 2: Not reported
Phone Number: 7183490500
Owner Type: Private
Owner Name: GPB Waste NY LLC
Owner Address: 535 West 24th Street

GPB WASTE NY DBA NY/NJ RECYCLING (FORMERLY RAPID PROCESSING) (Continued) **S120839218**

Owner Address 2:	Not reported
Owner City,St,Zip:	New York, NY 10011
Owner Email:	Not reported
Owner Phone:	2122352650
Contact Name:	Jose Ortiz
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	NY
Contact Email:	jose@rapidprocessingllc.com
Contact Phone:	7183490500
Activity Desc:	RHRF - registration
Activity Number:	[41M13]
Active:	Yes
East Coordinate:	591077
North Coordinate:	4507948
Accuracy Code:	Not reported
Regulatory Status:	Registration
Permit #:	41M13
Auth. Date:	Not reported
Expiration Date:	Not reported
Waste Types:	Commingled Paper;Paper / Cardboard
Operator Name:	Not reported
Operator Type:	Not reported
Last Date:	1/10/2017

AQ243 **18-51 FLUSHING AVE/QUEENS** **NY LTANKS** **S100146969**
East **18-51 FLUSHING AVENUE** **N/A**
1/4-1/2 **NEW YORK CITY, NY**
0.454 mi.
2396 ft. **Site 1 of 2 in cluster AQ**

Relative: **Higher**
Actual: **25 ft.**

LTANKS:

Name:	18-51 FLUSHING AVE/QUEENS
Address:	18-51 FLUSHING AVENUE
City,State,Zip:	NEW YORK CITY, NY
Spill Number/Closed Date:	9100841 / 2003-03-06
Facility ID:	9100841
Site ID:	268451
Spill Date:	1991-04-22
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	4101
Investigator:	BATTISTA
Referred To:	Not reported
Reported to Dept:	1991-04-22
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1991-04-23
Spill Record Last Update:	2003-03-06
Spiller Name:	Not reported

18-51 FLUSHING AVE/QUEENS (Continued) **S100146969**

Spiller Company:	FRITO-LAY
Spiller Address:	7701 LEGACY DRIVE
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	218683
DEC Memo:	""
Remarks:	"TANK PULL,OLD TANK FROM 70'S, DISCOVERED HOLES IN BOTTOM OF TANK,SHEENON WATER IN EXCAVATION,FRANKLIN CO IS DOING EXCAVATION WORK."

All Materials:

Site ID:	268451
Operable Unit ID:	952122
Operable Unit:	01
Material ID:	427009
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

AO244 **FORMER UNIVERSAL SCRAP METAL PROCESSORS CORP.** **NY BROWNFIELDS S117394468**
SSE **1181 FLUSHING AVENUE** **NY Spills N/A**
1/4-1/2 **BROOKLYN, NY 11237**
0.458 mi.
2417 ft. **Site 2 of 2 in cluster AO**

Relative:
Higher

Actual:
18 ft.

BROWNFIELDS:

Name:	FORMER UNIVERSAL SCRAP METAL PROCESSORS CORP.
Address:	1181 FLUSHING AVENUE
City,State,Zip:	BROOKLYN, NY 11237
Program:	BCP
Site Code:	505316
Acres:	0.502
HW Code:	C224210
SWIS:	2401
Town:	New York City
Record Added Date:	03/10/2015
Record Updated Date:	01/06/2021
Update By:	SMQUANDT
Site Description:	"Location: The Former Universal Scrap Metal Processors Corp. site is located in an urban area in the East Williamsburg neighborhood of Brooklyn, Kings County. The irregularly-shaped site has approximately 109 feet of street frontage on Flushing Avenue and 203 feet of street frontage on Stewart Avenue. Site Features: The property was partially developed with a 1-story 4,500 square foot commercial building which was constructed in 1931, but demolished in 2016. The site is currently vacant, surrounded by a fence and unpaved. Current Zoning and Land Use: The site is located in a M1-2 zone which allows nearly all industrial type uses. Additional uses are allowed, including office, hotel, and retail. M1 districts are often buffers between M2

FORMER UNIVERSAL SCRAP METAL PROCESSORS CORP. (Continued) **S117394468**

or M3 districts and adjacent residential or commercial districts. The scrap metal operation which previously occupied the building and property no longer operates. Past Use of the Site: The entire property was used as a railroad freight yard from sometime between 1888 and 1907 to sometime between 1951 and 1965. The south end of the site was utilized as a filling station from approximately 1955 until at least 2003. The southern portion of the site and the building were used for auto repair from 1955 until 2007. The northern portion of the property was used as an auto scrap yard from 1981 through 2007. From 2007 through 2014 the property was used as a scrap metal facility. In January 2006, under Spill #0510000, eleven (11) 550-gallon gasoline underground storage tanks (USTs) and 240 tons of petroleum-impacted soil were removed, and a chemical oxidant was applied to treat groundwater. Site Geology and Hydrogeology: Soil at the site is described as historic fill to a depth of approximately 4 feet below the surface followed by native brown fine sand with silt. The bedrock in this area of Brooklyn is an igneous intrusive classified as the Ravenswood grano-diorite of middle Ordovician to middle Cambrian age. Bedrock was not encountered during the remedial investigation, but is anticipated to reside at depths greater than 100 feet below grade. Unconsolidated sediments overlie the bedrock and consist of Pleistocene aged sand, gravel and silty clays, deposited by glacial-fluvial activity. Non-native fill materials consisting of dredge spoils, rubble and/or other materials have historically been used to reinforce and extend shoreline areas and to raise and improve the drainage of low lying areas. Depth to groundwater at the site is approximately 12 feet below grade and flows to the north/ northeast, toward the English Kills Channel. Groundwater flow is also highly variable as it may be influenced by the subway tunnel which runs underground north of the site."

Env Problem:

"Site soils and groundwater have been analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, pesticides and poly chlorinated biphenyls (PCBs). Soil vapor has been analyzed for VOCs. Soil: Several VOCs have been detected in site soils, primarily petroleum constituents including 1,2,4-trimethylbenzene at concentrations up to 910 parts per million (ppm) (Unrestricted Use Soil Cleanup Objective (UUSCO) is 3.6 ppm), 1,3,5-trimethylbenzene up to 320 ppm (UUSCO is 8.4), benzene up to 1.9 ppm (UUSCO is 0.06 ppm), ethylbenzene up to 190 ppm (UUSCO is 1 ppm), n-propylbenzene up to 140 ppm (UUSCO is 3.9 ppm), n-butylbenzene up to 70 ppm (UUSCO is 12 ppm), sec-butylbenzene up to 23 ppm (UUSCO is 11 ppm), m-p-xylenes up to 720 ppm (UUSCO is 0.26 ppm), o-xylene up to 260 ppm (UUSCO is 0.26 ppm), toluene up to 20 ppm (UUSCO is 0.7 ppm), and naphthalene up to 17 ppm (UUSCO is 12 ppm). Chlorinated volatile organic compounds (CVOCs) were detected at two locations, including tetrachloroethene at concentrations up to 22 ppm (UUSCO is 1.3 ppm), cis-1,2-dichloroethene up to 27 ppm (UUSCO is 0.25 ppm), trans-1,2-dichloroethene up to 2.3 ppm (UUSCO is 0.19), and vinyl chloride up to 3 ppm (UUSCO is 0.02 ppm). Several Polycyclic aromatic hydrocarbons (PAHs) were also detected in shallow subsurface soils, including benzo(a)anthracene at concentrations up to 1.5 ppm (UUSCO is 1 ppm), benzo(a)pyrene up to 1.1 ppm (UUSCO is 1 ppm), indeno(1,2,3-cd)pyrene up to 0.72 ppm (UUSCO is 0.5 ppm), benzo(b)fluoranthene up to 1.1 ppm (UUSCO is 1 ppm), benzo(k)fluoranthene up to 0.9 ppm (UUSCO is 0.8 ppm), and chrysene up to 1.6 ppm (UUSCO is 1 ppm). Metals, including mercury were detected at concentrations up to 1.57 ppm (UUSCO is 0.18 ppm), barium

FORMER UNIVERSAL SCRAP METAL PROCESSORS CORP. (Continued) **S117394468**

up to 446 ppm (UUSCO is 350 ppm), cadmium up to 7.67 ppm (UUSCO is 2.5 ppm), copper up to 266 ppm (UUSCO is 50 ppm), lead up to 754 ppm (UUSCO is 63 ppm), and zinc up to 1,100 ppm (UUSCO is 109 ppm). Groundwater: Several petroleum-related VOCs were detected in site groundwater including 1,2,4-trimethylbenzene up to 1,400 parts per billion (ppb) (NYSDEC groundwater quality standard is 5 ppb), 1,3,5-trimethylbenzene up to 400 ppb (standard is 5 ppb), benzene up to 380 ppb (standard is 1 ppb), ethylbenzene up to 940 ppb (standard is 5 ppb), isopropylbenzene up to 79 ppb (standard is 5 ppb), m-p-xylenes up to 3,700 ppb (standard is 5 ppb), methyl ethyl ketone up to 780 ppb (standard is 50 ppb), MTBE up to 66 ppb (standard is 10 ppb), naphthalene up to 250 ppb (standard is 10 ppb), n-butylbenzene up to 20 ppb (standard is 5 ppb), sec-butylbenzene up to 13 ppb (standard is 5 ppb), n-propylbenzene up to 200 ppb (standard is 5 ppb), o-xylene up to 1,500 ppb (standard is 5 ppb), and toluene up to 1,100 ppb (standard is 5 ppb). Minor detections of CVOCs were also found, including tetrachloroethene at concentrations up to 8.1 ppb (standard is 5 ppb), and trichloroethene up to 7.4 ppb (standard is 5 ppb). Metals were also detected in site groundwater, including lead at concentrations up to 59 ppb (standard is 25 ppb), barium up to 1,330 ppb (standard is 1,000 ppb), cadmium up to 18 ppb (standard is 5 ppb), magnesium up to 95,100 ppb (standard is 35,000 ppb), manganese up to 44,800 ppb (standard is 300 ppb), sodium up to 343,000 ppb (standard is 20,000 ppb), and iron up to 868,000 ppb (standard is 300 ppb). The manganese, magnesium, and sodium is believed to be naturally-occurring. PCB-1016 was also detected at 0.16 ppb (standard is 0.09 ppb). Soil Vapor: In soil gas, several CVOCs were detected, including tetrachloroethene up to 34.3 micrograms per cubic meter (ug/m^3), trichloroethene up to 11.3 ug/m^3, cis-1,2-dichloroethene up to 109 ug/m^3, and vinyl chloride up to 2,530 ug/m^3. Benzene was detected up to 1,140 ug/m^3."

Health Problem: "The site is completely fenced, which restricts public access. However, persons who enter the site could contact contaminants in the soil by walking on the site, digging or otherwise disturbing the soil. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater and soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site redevelopment and occupancy. Additional evaluation is needed to determine whether actions are needed to address soil vapor intrusion off-site."

Dump: Not reported
Structure: Not reported
Lagoon: Not reported
Landfill: Not reported
Pond: Not reported
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: Not reported
Record Upd: Not reported

FORMER UNIVERSAL SCRAP METAL PROCESSORS CORP. (Continued) **S117394468**

Updated By:	Not reported
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Brooklyn Public Library- Bushwick Branch
Owner Address:	340 Bushwick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11206
Owner Country:	United States of America
Own Op:	1
Sub Type:	P03
Owner Name:	Dawson Stellberger
Owner Company:	25C LLC
Owner Address:	249 Smith Street
Owner Addr2:	#140
Owner City,St,Zip:	Brooklyn, NY 11231
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	Yoel Schwimmer
Owner Company:	flushing stewart LLC
Owner Address:	12 Spencer STreet
Owner Addr2:	2nd Floor
Owner City,St,Zip:	Brooklyn, NY 11205
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	Abe Wurzberger
Owner Company:	Flushing Stewart LLC
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	NY
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Brooklyn Community Board 4
Owner Address:	1420 Bushwick Ave
Owner Addr2:	Rm 370
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	Dawson Stellberger
Owner Company:	25C LLC
Owner Address:	249 Smith Street
Owner Addr2:	#140
Owner City,St,Zip:	Brooklyn, NY 11231
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Brooklyn Community Board 1
Owner Address:	435 Graham Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Country:	United States of America

FORMER UNIVERSAL SCRAP METAL PROCESSORS CORP. (Continued) **S117394468**

HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

SPILLS:

Name:	COMMERCIAL PROPERTY
Address:	1181 FLUSHING AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1410058 / Not Reported
Facility ID:	1410058
Facility Type:	ER
DER Facility ID:	458645
Site ID:	503722
DEC Region:	2
Spill Cause:	Other
Spill Class:	Not reported
SWIS:	2401
Spill Date:	2015-01-14
Investigator:	AXDORONO
Referred To:	BROWNFIELD PROGRAM. PM IN ALBANY
Reported to Dept:	2015-01-14
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	2015-01-14
Spill Record Last Update:	2017-06-29
Spiller Name:	Not reported
Spiller Company:	COMMERCIAL PROPERTY
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	CHARLIE SOSIK
DEC Memo:	"1/14/2015 - Feng - Duty Desk. Left call back information to the receptionist at EBC (631-504-6000) and asked Charles Sosik to call back. 3/30/2016 Feng This spill is transferred from J. Feng to V. Brevdo as per J. Vought. 03/31/2016: This spill case was transferred to A. Doronova. - AD 05/20/2016: called and left a message for Mr. Sosik with the receptionist. AD 09/20/2016: Called and left a message to Mr. Sosik with the receptionist. AD 09/29/2016: Looked for the owner information on the Internet. Found records saying that Riverside Developers USA is the property owner. called and spoke with the receptionist. Her name is Rachel Mittelman. She informed me that they are longer involved with this property. She will find out the new owner info. AD 09/30/2016: Received a phone call from Joe

FORMER UNIVERSAL SCRAP METAL PROCESSORS CORP. (Continued) **S117394468**

Greenfeld. He was referred by Ms. Mittelman. He is representative of the new owner of the site. The company name is All Year Management. Phone numbers: (718)623-9430, ext.111, 110,989; (917)-470-3650. He said that they will retain Mr. Sosik's company to deal with this spill. He will gather more info and get back. AD 01/19/2017: Called and left a message for Mr. Greenfeld regarding update info. Later in the day received a call from Mr. Greenfeld. He said that they still work with Mr. Sosik on the site remediation, and that a work plan will be submitted to DEC shortly. AD 06/29/2017: Called and spoke with Charlie Sosik. He informed me that this site is in Brownfield Program and is managed by Albany. He will sent an e-mail with info. AD"

Remarks: "contamination based on sample results"

All Materials:

Site ID:	503722
Operable Unit ID:	1253072
Operable Unit:	01
Material ID:	2255271
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

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245 NNE 1/4-1/2 0.467 mi. 2465 ft. **TRANSCON LINES TERMINAL** **NY LTANKS** **1000693502**
430 MASPETH AVE **NY UST** **NYD986995512**
BROOKLYN, NY 11211 **RCRA NonGen / NLR**
NY MANIFEST

Relative: Lower
Actual: 8 ft.

LTANKS:

Name:	430 MASPETH AVE.
Address:	430 MASPETH AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9206929 / 1997-07-03
Facility ID:	9206929
Site ID:	260707
Spill Date:	1992-09-09
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	D4
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	1992-09-16
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True

TRANSCON LINES TERMINAL (Continued) **1000693502**

Remediation Phase:	0
Date Entered In Computer:	1992-09-18
Spill Record Last Update:	2003-06-06
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	212920
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was AUSTIN 10/10/95: This is additional information about material spilled from the translation of the old spill file: CONTAMINATED SOIL. 7/3/97 - AUSTIN - REMEDIATION PROJECT DONE AND FINISHED WITH OXYGEN RELEASING COMPOUND BEING PLACED IN WELLS - NO FURTHER ACTION REQUIRED - NFA LETTER ISSUED 7/3/97 - CLOSE"
Remarks:	"DURING TANK REMOVAL U/G SOIL CONTAMINATED DISOV. STOCKPILED, SAMPLED, WILL DISPOSE AS NECESSARY- TRANS-CON BANKRUPT CALLER REPRESENTS HOLDING CO. MCLAREN HART WILL SEND ASSESSMENT TO AUSTIN"

All Materials:

Site ID:	260707
Operable Unit ID:	970698
Operable Unit:	01
Material ID:	407610
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-10.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

UST:

Name:	TRANSCON LINES
Address:	430 MASPETH AVENUE
City,State,Zip:	BROOKLYN, NY 11211
Id/Status:	2-016071 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	590565.30494
UTM Y:	4508073.53886
Site Type:	Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id:	107
Affiliation Type:	Facility Owner
Company Name:	TRANSCON LINES
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	430 MASPETH AVENUE
Address2:	Not reported

TRANSCON LINES TERMINAL (Continued) **1000693502**

City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 385-8800
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JMKRIMGO
Date Last Modified:	2005-03-24

Site Id:	107
Affiliation Type:	Mail Contact
Company Name:	TRANSCON LINES
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	430 MASPETH AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 385-8800
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JMKRIMGO
Date Last Modified:	2005-03-24

Site Id:	107
Affiliation Type:	Facility Operator
Company Name:	TRANSCON LINES
Contact Type:	Not reported
Contact Name:	TRANSCON LINES
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 388-8000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JMKRIMGO
Date Last Modified:	2005-03-24

Site Id:	107
Affiliation Type:	Emergency Contact
Company Name:	TRANSCON LINES
Contact Type:	Not reported
Contact Name:	JOHN WILEY, TERMINAL M ANAGER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 385-8800
EMail:	Not reported

TRANSCON LINES TERMINAL (Continued) **1000693502**

Fax Number: Not reported
Modified By: JMKRIMGO
Date Last Modified: 2005-03-24

Tank Info:

Tank Number: 001
Tank ID: 26929
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 08/01/1992
Date Tank Closed: 09/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

D00 - Pipe Type - No Piping
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number: 002
Tank ID: 26930
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 08/01/1992
Date Tank Closed: 09/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

TRANSCON LINES TERMINAL (Continued) **1000693502**

Equipment Records:
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number:	003
Tank ID:	26931
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	08/01/1992
Date Tank Closed:	09/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:
I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number:	004
Tank ID:	26932
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	08/01/1992
Date Tank Closed:	09/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel

TRANSCON LINES TERMINAL (Continued) **1000693502**

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

D00 - Pipe Type - No Piping
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number: 005
Tank ID: 26933
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 08/01/1992
Date Tank Closed: 09/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number: 006
Tank ID: 26934
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 08/01/1992
Date Tank Closed: 09/01/1992

TRANSCON LINES TERMINAL (Continued) **1000693502**

Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number: 007
Tank ID: 26935
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 08/01/1992
Date Tank Closed: 09/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

D00 - Pipe Type - No Piping
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Number: 008

TRANSCON LINES TERMINAL (Continued) **1000693502**

Tank ID:	26936
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	08/01/1992
Date Tank Closed:	09/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number:	009
Tank ID:	26937
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	08/01/1992
Date Tank Closed:	09/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping

TRANSCON LINES TERMINAL (Continued) **1000693502**

F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser

Tank Number: 010
Tank ID: 26938
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 08/01/1992
Date Tank Closed: 09/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

D00 - Pipe Type - No Piping
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping

Tank Number: 011
Tank ID: 26939
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 08/01/1992
Date Tank Closed: 09/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

TRANSCON LINES TERMINAL (Continued) **1000693502**

I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping

Tank Number:	012
Tank ID:	26940
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	08/01/1992
Date Tank Closed:	09/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

D00 - Pipe Type - No Piping
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number:	013
Tank ID:	26941
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	08/01/1992
Date Tank Closed:	09/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported

TRANSCON LINES TERMINAL (Continued) **1000693502**

Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

D00 - Pipe Type - No Piping
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

RCRA NonGen / NLR:

Date Form Received by Agency:	20070101
Handler Name:	TRANSCON LINES TERMINAL
Handler Address:	430 MASPETH AVE
Handler City,State,Zip:	BROOKLYN, NY 11211-1704
EPA ID:	NYD986995512
Contact Name:	Not reported
Contact Address:	MASPETH AVE
Contact City,State,Zip:	BROOKLYN, NY 11211
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	MASPETH AVE
Mailing City,State,Zip:	BROOKLYN, NY 11211
Owner Name:	L GUMPORT TURSTEE OF BANK
Owner Type:	Private
Operator Name:	L GUMPORT TURSTEE OF BANK
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No

TRANSCON LINES TERMINAL (Continued) **1000693502**

Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

TRANSCON LINES TERMINAL (Continued) **1000693502**

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	L GUMPORT TURSTEE OF BANK
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	355 S GRAND AVE 40TH FL
Owner/Operator City,State,Zip:	LOS ANGELES, CA 90071-3101
Owner/Operator Telephone:	213-617-7070
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	L GUMPORT TURSTEE OF BANK
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	355 S GRAND AVE 40TH FL
Owner/Operator City,State,Zip:	LOS ANGELES, CA 90071-3101
Owner/Operator Telephone:	213-617-7070
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	L GUMPORT TURSTEE OF BANK
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	355 S GRAND AVE 40TH FL
Owner/Operator City,State,Zip:	LOS ANGELES, CA 90071-3101
Owner/Operator Telephone:	213-617-7070
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990708
Handler Name:	TRANSCON LINES TERMINAL
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

TRANSCON LINES TERMINAL (Continued) **1000693502**

Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: TRANSCON LINES TERMINAL
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: TRANSCON LINES TERMINAL
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19930622
Handler Name: TRANSCON LINES TERMINAL
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

NY MANIFEST:
Name: TRANSCON LINES

TRANSCON LINES TERMINAL (Continued) **1000693502**

Address:	430 MASPETH AVE
City,State,Zip:	BROOKLYN, NY 11211-1704
Country:	USA
EPA ID:	NYD986995512
Facility Status:	Not reported
Location Address 1:	430 MASPETH AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11211
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD986995512
Mailing Name:	TRANSCON LINES
Mailing Contact:	LAWRENCE V WILSON
Mailing Address 1:	10851 SUNSET PLAZA / RAMPICO
Mailing Address 2:	Not reported
Mailing City:	SUNSET
Mailing State:	MO
Mailing Zip:	63127
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	3148219333

AR246 **FORMER JAYER PLATING** **NY SHWS S110487597**
SSW **2 INGRAHAM ST** **NY VCP N/A**
1/4-1/2 **EAST WILLIAMSBURG, NY 11206** **NY BROWNFIELDS**
0.472 mi.
2492 ft. **Site 1 of 2 in cluster AR**

Relative:
Higher

Actual:
19 ft.

SHWS:

Name:	FORMER JAYER PLATING
Address:	2 INGRAHAM ST
City,State,Zip:	EAST WILLIAMSBURG, NY 11206
Program:	HW
Site Code:	57074
Classification:	N
Region:	2
Acres:	0.500
HW Code:	224036
Record Add:	02/21/2002
Record Upd:	02/28/2018
Updated By:	JEBROWN

Site Description: "Site being handled under BCP - C224036 Location: The Former Jayer Plating site is located at 2 Ingraham Street in the East Williamsburg Area of Brooklyn, New York. Site Features: The site is a 0.5 acre warehouse and is bordered on the south by Harrison Place, on the north by Ingraham Street, on the west by Bogart Street, and on the east by Morgan Avenue. The site is affected by an easement for the New York City Water Tunnel No. 3. Current Zoning and Land Use: The current zoning of the property is M1-2 (light manufacturing), and it is currently vacant. The surrounding land use is mainly manufacturing (M-1 and M-2) with residential (R-6) farther east and west of the site. The businesses in the immediate area include warehouses, auto

FORMER JAYER PLATING (Continued) **S110487597**

scrap yards, masonry materials sales, waste management and trucking. The neighborhood surrounding the site includes some residential units interspersed with commercial properties. A New York City Transit Authority subway line is located beneath Harrison Place, and there are rail yards nearby which are connected to the Long Island Railroad Bushwick Branch. Past Use of the Site: Prior 1946 the Site was used as an orphanage. In 1948, the site was occupied by an umbrella manufacturing plant and a metal plating company between 1946 and early 1990's. After the 1990's, the site has been used as a warehouse without major changes. The site structure has been unoccupied since April 2016. Site Geology and Hydrogeology: The site is underlain by 0 to 8 feet of fill. The fill consists predominantly of silty sands with gravel, bricks, rock fragments, concrete, and coal cinders. Native soils beneath the fill layer consist of medium to fine sand and silt and continues with slight variations up to 35 feet below ground surface (bgs). Clay was encountered at several boring locations at depths greater than 6 feet bgs. The depth to groundwater is approximately 15 feet below grade. The regional groundwater flow direction is roughly south to north, towards the English Kills. "

Env Problem:	"This site is now in the BCP as 2 Ingraham Street site (C224036). Project was reclassed to N. "
Health Problem:	""
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	1
Sub Type:	01
Owner Name:	Joe Brunner
Owner Company:	Bogart Holdings LLC
Owner Address:	390 Berry Street, Suite 200
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11249
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	C05
Owner Name:	Gerald A. Esposito
Owner Company:	Brooklyn Community Board 1
Owner Address:	435 Graham Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Loren Williams
Owner Company:	Brooklyn Public Library, Central Branch
Owner Address:	10 Grand Army Plaza
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11238

FORMER JAYER PLATING (Continued) **S110487597**

Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

VCP:

Name:	2 INGRAHAM STREET
Address:	2 INGRAHAM STREET
City,State,Zip:	BROOKLYN, NY 11206
Program Type:	VCP
Site Code:	56868
HW Code:	V00184
Site Class:	N
SWIS:	2401
Region:	2
Town:	New York City
Acres:	Not reported
Date Record Added:	11/30/2000
Date Record Updated:	06/16/2009
Updated By:	IXMUNTEA
Site Description:	"2 Ingraham Street, site represents the Block 3084, Lot 1, in the Williamsburg Area of Brooklyn, NY 11206. The site is a 0.5 acre warehouse. The property is bordered by Ingraham Street to the north, by Marrisson Place to the south, by Bogart Street to the west and by Morgan Avenue to the east. The current use of the site is commercial. Before 1998, the building was used for cloth manufacturing and one of its section was used as a plating factory (Former Jayer Plating Co.). In spring 1998, the warehouse was vacant. The neighbourhood was mixed industrial, residential, and commercial. In the western section of the warehouse, where the plating factory has operated a deep corroded dry drain was noticed. In this area the concrete floor was also broken and corroded, perhaps due to waste bath residues of the metal plating processes on the floor. The VCP investigation was not compleated and the Volunteer Cleanup Agreement negotiations have been closed . See project C224036 "
Env Problem:	""
Health Problem:	""
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	6

FORMER JAYER PLATING (Continued) **S110487597**

Sub Type:	ZZZ
Owner Name:	CARL SAVRYN
Owner Company:	Milhan Realty Corporation
Owner Address:	2 INGRAHAM ST.
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11206
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

BROWNFIELDS:

Name:	2 INGRAHAM STREET - OFF-SITE
Address:	2 INGRAHAM ST
City,State,Zip:	EAST WILLIAMSBURG, NY 11206
Program:	BCP
Site Code:	567066
Acres:	Not reported
HW Code:	C224036A
SWIS:	2401
Town:	New York City
Record Added Date:	02/22/2018
Record Updated Date:	04/02/2021
Update By:	JCGRATHW
Site Description:	"This project (2 Ingraham Street Off-Site, C224036A) was created to investigate for potential off-site impacts from the 2 Ingraham Street BCP Site (C224036). Location: This site is the off-site component to the 2 Ingraham Street Site located at 2 Ingraham Street in the East Williamsburg Area of Brooklyn, New York. Site Features: The BCP site is a 0.5 acre warehouse and is bordered on the south by Harrison Place, on the north by Ingraham Street, on the west by Bogart Street, and on the east by Morgan Avenue. The BCP site is affected by an easement for the New York City Water Tunnel No. 3. Current Zoning and Land Use: The current zoning of the BCP site is M1-2 (light manufacturing), and it is currently vacant. The surrounding land use is mainly manufacturing (M-1 and M-2) with residential (R-6) farther east and west of the site. The businesses in the immediate area include warehouses, auto scrap yards, masonry materials sales, waste management and trucking. The neighborhood surrounding the site includes some residential units interspersed with commercial properties. A New York City Transit Authority subway line is located beneath Harrison Place, and there are rail yards nearby which are connected to the Long Island Railroad Bushwick Branch. Past Use of the Site: Prior 1946 the BCP site was used as an orphanage. In 1948, the BCP site was occupied by an umbrella manufacturing plant and a metal plating company between 1946 and early 1990's. After the 1990's, the BCP site has been used as a warehouse without major changes. The site structure has been unoccupied since April 2016. Site Geology and Hydrogeology: The BCP site is underlain by 0 to 8 feet of fill. The fill consists predominantly of silty sands with

FORMER JAYER PLATING (Continued) **S110487597**

	gravel, bricks, rock fragments, concrete, and coal cinders. Native soils beneath the fill layer consist of medium to fine sand and silt and continues with slight variations up to 35 feet below ground surface (bgs). Clay was encountered at several boring locations at depths greater than 6 feet bgs. The depth to groundwater is approximately 15 feet below grade. The regional groundwater flow direction is roughly south to north, towards the English Kills. "
Env Problem:	"This Site represents an off-site project to investigate the area surrounding BCP Site C224036, 2 Ingraham Street. The environmental assessment below is for C224036. Off-site investigation including groundwater sampling, soil vapor sampling, and soil vapor intrusion investigation is planned. Nature and Extent of Contamination: The primary contaminants of concern off-site include metals, and volatile organic compounds (VOCs). Previous environmental investigation in the area revealed concentrations of metals and VOCs exceeding Standards, Criteria, and Guidance values in the soil and/or groundwater. Based upon investigations to date, shallow soils (up to 5 feet below ground surface) are contaminated with metals. Data results from soils sampling reported metals (lead, mercury and nickel). Maximum detections vs. applicable unrestricted use or protection of groundwater cleanup objectives are as follows: lead at 106 parts per million (ppm) vs. 63 ppm, mercury at 18.2 ppm vs. 0.73 ppm, and nickel at 433 ppm vs. 130 ppm. Groundwater sampling indicates metals and VOCs contamination above Class GA groundwater standards. Some metals were found in relative low levels in groundwater and are likely related to the presence of historic fill. Maximum groundwater detections vs. standards are as follows: tetrachloroethene at 17 parts per billion (ppb) vs. 5 ppb, trichloroethene at 140 ppb vs. 5 ppb, chromium at 10,800 ppb vs. 50 ppb, and nickel at 8,690 ppb vs. 100 ppb. "
Health Problem:	"Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available."
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2018-03-07 12:41:00
Record Upd:	2018-03-07 12:41:00
Updated By:	JXPEREZM
Own Op:	Not reported
Sub Type:	Not reported
Owner Name:	Not reported
Owner Company:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Country:	Not reported
HW Code:	C224036A
Waste Type:	trichloroethene (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported

FORMER JAYER PLATING (Continued) **S110487597**

HW Code:	C224036A
Waste Type:	nickel
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224036A
Waste Type:	chromium
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224036A
Waste Type:	mercury
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224036A
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C224036A
Waste Type:	lead
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

Name:	2 INGRAHAM STREET
Address:	2 INGRAHAM ST
City,State,Zip:	EAST WILLIAMSBURG, NY 11206
Program:	BCP
Site Code:	435675
Acres:	1.800
HW Code:	C224036
SWIS:	2401
Town:	New York City
Record Added Date:	06/04/2010
Record Updated Date:	06/15/2021
Update By:	GWBURKE
Site Description:	"Location: The 2 Ingraham Street site is located at 2 Ingraham Street in the East Williamsburg Area of Brooklyn, New York. Site Features: The site is a 0.5 acre warehouse and is bordered on the south by Harrison Place, on the north by Ingraham Street, on the west by Bogart Street, and on the east by Morgan Avenue. The site is affected by an easement for the New York City Water Tunnel No. 3. Current Zoning and Land Use: The current zoning of the property is M1-2 (light manufacturing), and it is currently vacant. The surrounding land use is mainly manufacturing (M-1 and M-2) with residential (R-6) farther east and west of the site. The businesses in the immediate area include warehouses, auto scrap yards, masonry materials sales, waste management and trucking. The neighborhood surrounding the site includes some residential units interspersed with commercial properties. A New York City Transit Authority subway line is located beneath Harrison Place, and there are rail yards nearby which are connected to the Long Island Railroad Bushwick Branch. Past Use of the Site: Prior 1946 the Site was used as an orphanage. In 1948, the site was occupied by an umbrella manufacturing plant and a metal

FORMER JAYER PLATING (Continued) **S110487597**

plating company between 1946 and early 1990's. After the 1990's, the site has been used as a warehouse without major changes. The site structure has been unoccupied since April 2016. Site Geology and Hydrogeology: The site is underlain by 0 to 8 feet of fill. The fill consists predominantly of silty sands with gravel, bricks, rock fragments, concrete, and coal cinders. Native soils beneath the fill layer consist of medium to fine sand and silt and continues with slight variations up to 35 feet below ground surface (bgs). Clay was encountered at several boring locations at depths greater than 6 feet bgs. The depth to groundwater is approximately 15 feet below grade. The regional groundwater flow direction is roughly south to north, towards the English Kills. "

Env Problem:

"Nature and Extent of Contamination: Soil and groundwater were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), and pesticides. The primary contaminants of concern at the site include metals, SVOCs, and VOCs. Environmental investigation in the area revealed concentrations of metals, SVOCs, and VOCs exceeding Standards, Criteria, and Guidance values (SCGs) in the soil and/or groundwater. Soil: Based upon investigations to date, sub-surface soils are contaminated with metals, SVOCS, and VOCs. Results from soils sampling reported metals (chromium, lead, mercury, and nickel), SVOCs (polyaromatic hydrocarbons or PAHs), and VOCs(tetrachloroethene or PCE). The PAHs contamination in soils is likely related to the presence of historic fill. Maximum detections vs. applicable unrestricted use or protection of groundwater soil cleanup objectives (UUSCO/PGWSCO) are as follows: chromium at 8,400 ppm vs. 19 ppm, lead at 607 ppm vs. 63 ppm, mercury at 1,790 ppm vs. 0.73 ppm, nickel at 3,720 ppm vs. 130 ppm, several PAHs including benzo(a)pyrene at 16 ppm vs. 1 ppm, and PCE at 1.9 ppm vs. 0.47 ppm. Mercury and nickel (up to 18.2 ppm, and 433 ppm, respectively) were detected off-site at soil boring SSB7N. Lead (up to 106 ppm) was detected off-site at soil boring SB8. Groundwater: Groundwater sampling indicates metals and VOCs contamination above Class GA groundwater standards. Some metals were found in relative low levels in groundwater and are likely related to the presence of historic fill. Maximum groundwater detections vs. standards are as follows: chromium at 110,000 parts per billion (ppb) vs. 50 ppb, lead at 461 ppb vs. 25 ppb, and nickel at 90,900 ppb vs. 100 ppb. PCE (up to 17 ppb) and mercury (up to 3.3 ppb) were detected in off-site downgradient groundwater at MW-7. Chromium, lead, and nickel (up to 10,800 ppb, 802 ppb, and 8,690 ppb, respectively) were detected off-site in down-gradient groundwater at MW-8. Trichloroethene up to 140 ppb was detected off-site in groundwater at MW-6. Soil Vapor: Elevated levels of VOCs were detected in sub-slab soil vapor. The maximum concentrations of PCE and 1,1,1-Trichloroethane in sub-slab soil vapor were detected in the northwestern/northeastern portion of the site at the respective concentrations of 827 micrograms per cubic meter (ug/m3) and 1,220 ug/m3. In addition, soil vapor intrusion (SVI) levels for methylene chloride (e.g., 42 ug/m3 [below the slab] and 20.5 ug/m3 [indoor air]) require additional assessment, investigation or mitigation in accordance with NYSDOH SVI matrices. Therefore, additional sampling is needed to determine whether actions are needed to address soil vapor intrusion on- and off-site. Significant Threat: Recent public events held at the site and past unapproved activities are likely to increase the risk of direct contact with the contamination visually observed on the surface of the slab and/or slab areas with broken

FORMER JAYER PLATING (Continued) **S110487597**

	concrete in which the upper soils likely contain hazardous waste levels of contamination. Contravention of SCOs for metals pose a significant threat to human health due to accessibility. Also, metals contamination in soil at the source area exceeds respective industrial and/or protection of groundwater SCOs. This has resulted in contamination of shallow groundwater at levels several orders of magnitude above standards, creating a significant threat to the environment."
Health Problem:	"Contaminated groundwater at the site is not used for drinking or other purposes and the site is served by a public water supply that obtains water from a different source not affected by this contamination. People may come into contact with contaminants in soils if they dig below the surface or contact exposed soil. Volatile organic compounds in soil vapor (air spaces within the soil) may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Because the site is vacant, the inhalation of site-related contaminants due to soil vapor intrusion does not represent a current concern. The potential exists for the inhalation of site contaminants due to soil vapor intrusion in the event the site is re-occupied and for any future buildings developed on the site. Additional evaluation is needed to determine whether actions are needed to address soil vapor intrusion off-site. "
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2013-09-20 13:57:00
Record Upd:	2016-09-28 14:18:00
Updated By:	JXPEREZM
Own Op:	1
Sub Type:	06
Owner Name:	Steve Novenstein
Owner Company:	74 Bogart LLC
Owner Address:	c/o Storage Deluxe Realty
Owner Addr2:	26 W. 17th Street, Suite 801
Owner City,St,Zip:	new york, NY 10011
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	Joseph Brunner
Owner Company:	Bogart Holdings LLC
Owner Address:	390 Berry Street, Suite 200
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11249
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Loren Williams
Owner Company:	Brooklyn Public Library, Central Branch
Owner Address:	10 Grand Army Plaza

FORMER JAYER PLATING (Continued) **S110487597**

Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11238
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Gerald A. Esposito
Owner Company:	Brooklyn Community Board 1
Owner Address:	435 Graham Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Country:	United States of America
Own Op:	6
Sub Type:	P03
Owner Name:	Steve Novenstein
Owner Company:	74 Bogart LLC
Owner Address:	c/o Storage Deluxe Realty
Owner Addr2:	26 W. 17th Street, Suite 801
Owner City,St,Zip:	new york, NY 10011
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	C224036-09-10
Cross Ref Type Code:	23
Cross Ref Type:	Agreement/Consent Order Number
Record Added Date:	2020-02-10 08:47:00
Record Updated:	2020-02-10 09:32:00
Updated By:	SMQUANDT
Crossref ID:	11/10/2010
Cross Ref Type Code:	26
Cross Ref Type:	Agreement/Consent Order Date
Record Added Date:	2020-02-10 08:48:00
Record Updated:	2020-02-10 08:48:00
Updated By:	JXPEREZM
Crossref ID:	224036
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2018-02-28 08:41:00
Record Updated:	2018-02-28 08:41:00
Updated By:	JEBROWN
Crossref ID:	V00184
Cross Ref Type Code:	04
Cross Ref Type:	VCP Site ID
Record Added Date:	2018-02-28 08:39:00
Record Updated:	2018-02-28 08:39:00
Updated By:	JEBROWN
Crossref ID:	9830001
Cross Ref Type Code:	01
Cross Ref Type:	Spill No.
Record Added Date:	2016-03-30 11:11:00
Record Updated:	2016-03-30 11:11:00
Updated By:	JXPEREZM

AR247 **FORMER JAYER PLATING** **NY HSWDS** **S104495031**
SSW **2 INGRAHAM STREET** **N/A**
1/4-1/2 **EAST WILLIAMSBURG, NY 11206**
0.472 mi.
2492 ft. **Site 2 of 2 in cluster AR**

Relative:
Higher

Actual:
19 ft.

HSWDS:

Facility ID:	HS2044
Region:	2
Facility Status:	None
Owner Type:	Puplic
Owner:	Millhan Realty Co./Carl Savryn
Owner Address:	Not reported
Owner Phone:	(212)972-8600
Operator Type:	Puplic
Operator:	Jayer Plating
Operator:	Jayer Plating
Operator Phone:	Not reported
EPA ID:	Not reported
Registry:	Not on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID:	Not reported
RCRA Permitted:	No
Site Code:	Industrial Site
Owner City State:	Not reported
Operator City State:	Not reported
Quadrange:	Brooklyn
Latitude:	40 42 22 N
Longitude:	73 56 30 W
Acres:	1.80
Operator Date:	1946
Close Date:	1990
Completed:	PRP Phase2
Active:	No
PCB's Disposed:	No
Pesticides Disposed:	No
Metals Disposed:	Yes
Asbestos Disposed:	Unknown
Volatile Organic Compounds Disposed:	No
Semi Volatile Organic Compounds Disposed:	No
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	Groundwater
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Substance:	Subsurface
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	TCLP
Threat to Environment/Public Health:	Environmental
Surface Water Contamination:	Unknown
Surface Water Body Class:	SD
Groundwater Contamination:	Yes
Groundwater Classification:	Sole Sourc
Drinking Water Contamination:	No
Drinking Water Supply is Active:	Yes
Any Known Fish or Wildlife:	No
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Yes

FORMER JAYER PLATING (Continued) **S104495031**

Ambient Air Contamination:	No
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	N/A
Inventory:	Not reported
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	Not reported
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

248
SSE
1/4-1/2
0.480 mi.
2536 ft.

UNIVERSAL USED AUTO PARTS INC (BROOKLYN) **NY SWF/LF** **S107488576**
1175 FLUSHING AVE **NY Spills** **N/A**
BROOKLYN, NY 11237

Relative:
Higher

Actual:
19 ft.

SWF/LF:

Name:	UNIVERSAL USED AUTO PARTS INC (BROOKLYN)
Address:	1175 FLUSHING AVE
City,State,Zip:	BROOKLYN, NY 11237
Flag:	INACTIVE
Region Code:	2
Phone Number:	7183811000
Owner Name:	Universal Used Auto Parts Inc
Owner Type:	Private
Owner Address:	1175 Flushing Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	unviersalscapprocessors@gmail.com
Owner Phone:	7183811000
Contact Name:	Louis Ruggiero
Contact Address:	1175 Flushing Avenue
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY 11237
Contact Email:	universalscrapprocessors@gmail.com
Contact Phone:	7183811000
Activity Desc:	Vehicle Dismantling Facility

UNIVERSAL USED AUTO PARTS INC (BROOKLYN) (Continued) **S107488576**

Activity Number: [7094890]
Active: No
East Coordinate: 590817
North Coordinate: 4506665
Accuracy Code: Not reported
Regulatory Status: Not reported
Waste Type: Not reported
Authorization #: Not reported
Authorization Date: Not reported
Expiration Date: Not reported
Operator Name: Universal Used Auto Parts Inc
Operator Type: Private
Laste Date: Not reported

SPILLS:
Name: OLD GAS STATION -MTBE
Address: 1175 FLUSHING AVE
City,State,Zip: BROOKLYN, NY
Spill Number/Closed Date: 0510000 / Not Reported
Facility ID: 0510000
Facility Type: ER
DER Facility ID: 305928
Site ID: 355883
DEC Region: 2
Spill Cause: Unknown
Spill Class: C4
SWIS: 2401
Spill Date: 2005-11-21
Investigator: KMFORSTE
Referred To: RAP IMPLEMNTD; REPLACE/REPAIR WELLS OCT '1
Reported to Dept: 2005-11-21
CID: 407
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 4
Date Entered In Computer: 2005-11-21
Spill Record Last Update: 2021-06-30
Spiller Name: UNKNOWN
Spiller Company: OLD GAS SATION
Spiller Address: 1175 FLUSHING AVE
Spiller Company: 001
Contact Name: UNKNOWN
DEC Memo: "need to send CSL 01/13/06-Vought-Received call from Ted Yen (718-857-3100) and returned call and no answer on phone. 02/24/06-Vought-Spoke with Ted Yen and tank closure report. 02/27/06-Hiralkumar Patel. Abstracts of Tank Closure Report: - Work performed: notification with NYSDEC for closure of tanks, excavation, cleaning/purging and removal of eleven (11) 550 gallon gasoline USTs - total of 239.78 tons of contaminated soil was removed from the site and transported to Soil Safe Inc. Bridgeport in Logan Township NJ. - soil and site assessments were conducted using PGM 30 PID. - based on

UNIVERSAL USED AUTO PARTS INC (BROOKLYN) (Continued) **S107488576**

visual and olfactory evidence, there was some contamination localized in the area located on the west perimeter of the tank grave near the fill pipes. (PID readings 80-150 ppm) - six end point soil samples (EP-1, EP-2, EP-3, EP-4, BS-1 & BS-2) taken from the four side walls and mid-grave east and mid-grave west. - groundwater flow is assumed to be in a westerly direction. - no groundwater intrusion in the pit. - groundwater contamination was identified from a Phase-II subsurface assessment previously conducted by Giorgio Envirnomental. - no private wells in the vicinity of tanks. - two groundwater wells were installed at depth of 22'-24' on two separate locations on the subject property. One monitoring well installed on the middle of the previous tank grave and second well was installed on northwest of the previous tank grave (east of office) Report Review Letter, with the requirement of water sample at middle of previous tank grave, sent out to James Ruggiero. faxed to Ted yen at don carlo. 03/28/06-Hiralkumar Patel. REceived fax from Don Carlo regarding groundwater sample result. but i have received only first four pages, and doesn't have lab results. Spoke with Danny and he told me that he going to drop report personally today. 04/04/06-Vought-Received and reviewed groundwater analyticals received from Don Carlo Environmental Services-3/27/06. Groundwater analyticals show 130ppb benzene(MW1), 1600ppb toluene(MW1), 1200ppb ethylbenzene(MW1), 4400ppb xylene(MW1) and 300ppb napthalene(MW1). Spill referred to DEC Austin for transfer due to groundwater contamination. 04/06/06-Vought-Spill transferred from DEC Vought to DEC Tang as per DEC Austin due to groundwater contamination and need for long term remediation. 4/12/06 - reviewed the case file. Will wait for the next round of groundwater sample before assigning the priority. - KST. 10/30/06 - Reassigned from Tang to Sun. (JS/MS) 1/3/07: Called Don Carlo (Ted Yen) and left message with secretary inquiring about latest round of ground water sampling at site. Expecting a return call. (JS/MS) 3/1/07: Followed up with Don Carlo- client has not yet paid them for the last round of groundwater sampling, once payment is received, sampling will be performed. (JS/MS) 7/28/07: Client has paid and on-site sampling is to be conducted on 7/15/07 as per Dan from DCS Services. (JS/MS) 1/24/08: MS spoke to Ted to get update. He said property came under new ownership and he is waiting for them to approve proposal to continue work. He will call back this afternoon or tomorrow to let me know details as he was out of office. (MS/JS) 2/5/08: DCES is taking 5th sampling event in 3 weeks from today. Danny from DCES is emailing all results to DEC to obtain electronic copies. (JS/MS) 4/3/08: Spoke to Danny Singh from Don Carlo. Reported frozen groundwater in monitoring wells. Supposed to resample 4/10/08. (JS/MM) 4/23/08: Email from Don Carlo (JS/MM) Please be advised that the groundwater samples at the above referenced site were collected as per our telephone conversation; however, the samples weren't collected on April 10, 2008 they were collected approx one week later. The samples were sent to York Analytical Laboratories in Stratford, CT for analysis. Upon receipt of the analytical results, you will receive the necessary lab data together with our Groundwater monitoring table. Danny Singh 06/02/08: Received groundwater table from Don Carlo Environmental; missing lab results from latest round of sampling. Ask to resubmit and correct for updated TAGM 4046 table. York Labs MDL for MTBE, BTEX 50 ppb to 125 ppb...when groundwater standards are 0.7/5/10 ppb (JS/MM) 08/05/08: Transferred to Kolleeny/Mandac. - JK 10/13/08: Danny Singh stated Don Carlo did not sample because owner did not give permission to sample (JK/MM)

UNIVERSAL USED AUTO PARTS INC (BROOKLYN) (Continued) **S107488576**

01/06/09: Left message with receptionist for Danny Singh to call back with update. (JK/KG) 01/15/09: Tried to call Don Carlo, but no answer (JK/KG) 01/26/09: Left message with receptionist for Danny Singh to call back with update. (JK/KG) 02/03/09: K. Green sent D. Singh email: Mr. Singh, I will be managing Spill No. 0510000 located at 1175 Flushing Avenue from now on, under supervision of Jon Kolleeny. My contact information is provided below. Can you please provide me with an update on status of this site? Latest rpt I have is a GW monitoring rpt for samples collected in April 2008. Have you been able to collect any samples since then? Please feel free to contact me if you have any questions. Response from Singh: Ms. Green, We have tried several times to contact owner for monies to continue with GW monitoring at site. Todate no response were gained. Our office will not continue with monitoring until money is received from client. (JK/KG) 02/09/09: Letter sent to Ruggiero requesting: Dept requires that a subsurface investig work plan be prepared & submitted for our review by 3/13/09. Work plan should include install'n of at least one addt'l monitoring well to further delineate GW contaminant plume and determine GW flow direction. During well install'n, soil must be sampled continuously and screened with a PID, and sample with highest PID reading and sample just above water table should be submitted for lab analysis. New and existing wells should be surveyed so that local GW flow direction can be determined, and GW samples should be collected from all wells for lab analysis. Work plan should include a site location map and a site plan showing current and former tank locations and locations of existing and proposed monitoring wells, and a North arrow and scale bar must be included on site plan. An investigation summary rpt with conclusions and recommendations should be submitted to DEC. SIWP due 3/19/09. (JK/KG) 02/17/09: Letter sent on 2/9/09 to Mr. Ruggiero at 1175 Flushing Ave was returned to sender. Addressee moved and did not leave a forwarding address. Sent Danny Singh an email to see if he has any contact information for Mr. Ruggiero. (JK/KG) 02/23/09: No response from D. Singh pertaining contact info for Ruggiero. Property Shark gives an address for Ruggiero in Howard Beach, NY. Re-sent letter requesting work plan be submitted by 3/27/09. Letter sent to 163-14 92nd St, Howard Beach, NY 11414. J. Kolleeny also sent an email to D. Singh requesting updated contact info (if any) for Ruggiero. (JK/KG) 03/25/09: On 3/4/09 Jon rec'd call from D. Singh stating that Ruggiero rec'd letter and the work will be performed. Singh was supposed to fax a letter to Jon. (JK/KG) 03/31/09: I spoke to D. Singh to find out status of site. He said DCES just received payment from Ruggiero and once the check clears they will begin to prepare the work plan. He will give me an update in the next couple of days.(JK/KG) 04/06/09: Rec'd voice message from D. Singh on 4/3/09 stating that payment has been rec'd and he has begun preparing the work plan. He was requesting an extension until 4/6/09. Rec'd pdf of work plan; under review. (JK/KG) 04/13/09: Rev'd work plan and spoke to D. Singh about making some revisions. He will resubmit a pdf of the revised plan and send me a hard copy. (JK/KG) 04/21/09: Rec'd pdf of revised Subsurface Investigation & GW Monitoring Well Work Plan dated 4/20/09. D. Singh will mail hardcopy. Letter sent approving work plan; investig summary rpt is due 6/19/09. Scope of work includes install'n of an addt'l monitoring well, collection of soil and GW samples, and submission of investig summary rpt. Letter states that new and existing wells should be surveyed so that local GW flow direction can be determined and that proposed well MW-3 should be installed as close as possible

UNIVERSAL USED AUTO PARTS INC (BROOKLYN) (Continued) **S107488576**

to existing on-site building, conditions permitting. D. Sing has indicated that property is a metal scrap/salvage yard and open space is limited. (JK/KG) 06/15/09: Rec'd pdf and hardcopy of Envt'l Subsurface Assessment rpt dated 6/5/09 prepared by Don Carlo. Spoke to D. Singh and requested well install'n/boring log for W-3 and site map. He said wells were not surveyed because owner did not want to pay to have it done. Well W-3 was installed on 4/22/09 and all wells were sampled for GW on 4/23/09. No SVOCs or VOCs detected in soil samples collected from B-3 (W-3). No SVOCs or VOCs detected in GW in W-2 and W-3. No SVOCs detected in GW in W-1. Detected VOCs include: Benzene (99 ug/L), n-Butylbenzene (59 ug/L), Ethylbenzene (990 ug/L), Isopropylbenzene (68 ug/L), Napthalene (850 ug/L), n-Propylbenzene (150 ug/L), 1,2,4-Trimethlybenzene (2,200 ug/L), 1,3,5-Trimethlybenzene (640 ug/L), m,p-Xylene (3,700 ug/L), o-Xylene (91 ug/L). (JK/KG) 06/16/09: Rec'd pdf of boring log for W-3 and site plan with well locations. I spoke to Danny Singh and requested a well construction log as well. I asked him if depths given on GW analysis table were depths to water measured for each sample. He said they were. There is a huge discepency in depths. W-1 and W-2 were installed to depths of 22 and 24 ft bgs and measured depths to water vary from 32' bgs to 14' bgs (i.e., deeper than total depth of well). Danny said he would look into it. I also asked him what kind of probe they were using to measure depth to water. He said it is an electronic water sensing device and it doesn't detect product. I also asked him to find out what is smallest interval probe can detect, since usually it is 0.01'. He said he doesn't have well construction details for W-1 or W-2. I asked him if W-3 was installed as close to building as possible and he said that it was. There is a scale for trucks directly behind building and well was installed next to a dumpster in an area that would be accessible. (JK/KG) 06/18/09: Letter dated 6/17/09 sent to Ruggiero requiring a work plan for a supplemental subsurface investigation be submitted by 7/17/09. Wells must be surveyed. A Stipulation Agreement was issued to Ruggiero on 6/18/09. Signed stip is due on 7/2/09. (JK/KG) 07/02/09: Rec'd faxed copy of signed Stipulation Agreement. Called Mr. Ruggiero (718-381-1000 or 718-791-4351) and he said a hard copy of Stip would be delivered today. He wanted clarification on letter sent on 6/17. I told him contaminant plume needs to be delineated and that was reason DEC is requiring a work plan for further investigation. He said he contacted a surveyor but they were not familiar with surveying monitoring wells. I explained to him process of surveying wells. Rec'd original signed Stip. (JK/KG) 07/06/09: Stipulation Agreement was executed on 7/3/09. (JK/KG) 07/14/09: Rec'd messsage from Zeb Youngman of P.W. Grosser (631-589-6353). Spoke to Youngman on 7/14. He said he was contacted by Ruggiero to submit a proposal for the additional investigation. If PWGC's proposal is accepted he will need some extra time to submit the work plan. (JK/KG) 07/20/09: Rec'd call from Ruggiero. He informed me that he has hired PWGC and a work plan will be submitted soon. Rec'd an email from Youngman as well, stating he will have the work plan by 7/23/09. (JK/KG) 07/23/09: Rec'd pdf of Monitoring Well Installation / Groundwater Monitoring Work Plan dated 7/21/09 submitted by PWGC. The work plan proposes installation of one permanent and three temporary monitoring wells, collection of groundwater samples, a groundwater elevation survey, and implementation of quarterly groundwater monitoring at the site for one year. The work plan was approved with the following comments: During well installation, soil must be sampled and screened

UNIVERSAL USED AUTO PARTS INC (BROOKLYN) (Continued) **S107488576**

continuously, and the sample with the highest PID reading and the deepest dry soil sample should be submitted for laboratory analysis. If PID readings are not detected, only the deepest dry soil sample need be analyzed. In addition to surveying the existing and new monitoring wells, well construction details such as well depth and screened interval should be determined for the existing wells. If the existing wells are not screened appropriately to assess groundwater conditions, additional wells will need to be installed. Well construction logs should be provided for all wells. The proposal to limit quarterly monitoring to a one-year period is not approved at this time. The results of this investigation should be presented in a summary report with conclusions and recommendations for further action. An investigation summary report is due by 9/25/09. Email for Ruggiero - JCR327@aol.com (JK/KG) 07/29/09: Rec'd call from Youngman. He was at the site today to survey and assess the condition of the existing wells. He sent a revised site plan showing the GW flow direction and proposed location of the new well, as well as GW elevation survey data. (eDocs)(JK/KG) 08/03/09: A copy of the executed Stip sent certified mail to Ruggiero was returned to the Dept. as unclaimed. It was resent to Ruggiero via email and regular mail. Spoke to Ruggiero and he said he receives mail at the Howard Beach address. (JK/KG) 08/05/09: Rec'd an email from Youngman stating that PWGC will be installing the well and performing soil and groundwater sampling on 8/7. (JK/KG) 09/21/09: Rec'd call from Ruggiero. He said PWGC has proposed injections and he wanted to know if it would be a good approach for site. I told him that I would have to review recent data when rpt is submitted. Once rpt is submitted & reviewed he would like to discuss PWGC's recommendations as soon as possible. He can be reached on his cell phone (718-791-4351). Rec'd Monitoring Well Installation / First Quarter Groundwater Monitoring Report dated 9/21/09 submitted by PWGC. On 8/7/09 one permanent and three temporary monitoring wells were installed. Soil and GW contamination was encountered. The new and existing monitoring wells were surveyed and groundwater flow is northerly. Soil samples were collected at 10-12' and 14-16' bgs from borings GW-1, 2, and 3 and at 10-12' bgs from MW-4. Depth to water is approximately 12' bgs. VOCs in excess of RSCO's were found in GW-1 (10-12' and 14-16'), GW-2(14-16'), and GW-3(14-16'). Summary of GW samples: MW-1: Total VOCs - 2,779 ug/L MW-2: Total VOCs - 185 ug/L MW-3: Total VOCs - 3.26 ug/L MW-4: Total VOCs - 4.04 ug/L GW-1: Total VOCs - 9,217 ug/L GW-2: Total VOCs - 7,570 ug/L GW-3: Total VOCs - 2,849 ug/L PWGC recommends chemical oxidation and ORC injections, followed by quarterly monitoring and reporting. Need to respond to recommendations. Contaminant plume needs to be delineated prior to remedial action. (JK/KG) 09/22/09: A letter was sent to Ruggiero requiring a brief work plan with a diagram showing the proposed locations for the new wells by 10/23/09. At least 2 wells should be installed: one to the NE of the former USTs and one to the SW of the former USTs. Soil samples should be collected during installation. After the wells have been installed and sampled a remedial action plan detailing PWGC's proposed remedial strategy should be submitted. (JK/KG) 09/23/09: Zeb Youngman called to discuss the requirement to install additional wells. He doesn't think they are necessary. I told him that the contaminant plume needs to be delineated prior to implementing remedial action. The well proposed to the SW of the former USTs does not need to be installed at this time. (JK/KG) 11/3/09 Spill case transferred from J. Kolleeny to J.A. Maisonave. - JAM 11/4/09 Spoke

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to Zeb Youngman. He will be submitting a work plan to install additional monitoring wells and propose RegenOx injections to address soil and GW contamination. - JAM 1/20/10 Reviewed the Remedial Action Work Plan (RAWP) submitted by P.W. Grosser (PWG) via email on January 4, 2010. The report is dated December 2009. The work plan proposes injecting chemical oxidants and oxygen releasing compounds to address groundwater contamination in the former UST area and installing two (2) additional monitoring wells to fully delineate groundwater contamination. Details are as follows: 1. 15 injection points in an area approximately 30 X 50 feet. 2. Based on RegenOx calculations, a total of 2,640 lbs of RegenOx and 450lbs of ORC advanced will be injected in 2 events. 3. First injection event will consist of 1,500 lbs of RegenOx (750 lbs each of Part-A and Part-B) 4. Second injection event will consist of a mixture of 1,110 lbs of RegenOx (750 lbs of Part-A, 360 lbs of Part-B) and 450 lbs of ORC advanced. 5. Installing 2 monitoring wells to the North and South of the Former UST area to fully delineate groundwater contamination. I issued a response letter to James Ruggiero approving the installation of the two monitoring wells. The locations of the wells should be modified as shown on a diagram, which was attached and issued with the letter. A third well should be installed to the northwest of the on-site building, between existing wells MW-2 and MW-4, also shown on the diagram. Groundwater samples should be collected from all wells and analyzed for the TAGM 4046 list of petroleum related VOCs as well as for chlorinated solvents (in response to the one boring have a solvent odor according to the Sept 2009 well installation report). A summary report should be submitted for review prior to implementing the proposed remedy and should include any changes to the remedy based on new information. The RAWP and DEC response letter are uploaded to eDocs. - JAM 2/5/10 Received an email from Jon Eichler from PW Grosser. The 3 monitoring wells will be installed Saturday, February 6th. - JAM 3/31/10 Received the Supplemental Monitoring Well Installation and Sampling Report submitted by PW Grosser dated March 15, 2010. On February 6, 2010, three new monitoring wells (MW-5 through MW-7) were installed and well MW-4 was re-installed because it had been destroyed. Groundwater was encountered at approx. 12 feet. Soil was screened and sampled only in new wells. PID readings above background were only observed in well MW-7 from 4' to 12' below grade. A soil sample was collected from deepest dry soil interval in each of wells and also from 5'-7' depth interval of MW-7 (highest PID reading). Laboratory results showed several VOCs in soil samples collected from MW-6 and MW-7, however, concentrations were below RSCOs. No VOCs were detected in soil from well MW-5. Groundwater samples were collected from wells MW-1 through MW-7. VOCs were detected at concentrations exceeding DEC standards from wells MW-1, MW-2, MW-5, MW-6, and MW-7, and Total VOCs ranged from 58 ug/L in well MW-5 to 12,413 ug/L in well MW-1. Even though well MW-1 had highest concentration of Total VOCs, well MW-2 had highest concentrations of petroleum related VOCs (MW-1 had Acetone concentration of 11,500 ug/L). Total BTEX concentration in well MW-2 was 2,517 ug/L. Contamination in MW-2 has always been relatively low in previous sampling events (185 ug/L Total VOCs from August 2009 sampling event). PW Grosser does not propose any changes in the RAWP, which was submitted in January 2010, even though the Total VOC concentrations increased in well MW-2. On March 31, 2010, DEC issued a letter appproving the RAWP and states that, Follow-up groundwater sampling must be performed subsequent to the chemical oxidant and ORC

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injections to evaluate the effectiveness of the remedy. If this remedy is not effective at reducing groundwater contamination, then additional remediation will be required. The report and the approval letter are uploaded to eDocs. - JAM 10/20/10 From emails with Jim Eichler: First round of ChemOx injections performed on July 30 and 31, 2010. The second round of injections occurred on September 11, 2010. The first post-injection sampling is scheduled for Tuesday, October 26, 2010. The Remedial Action Report should be completed in November 2010. - JAM 05/09/11: This spill case is transferred from J. Maisonave to J. Kolleeny. Received email from John Eichler of PW Grosser: We are performing a round of quarterly GW monitoring at 1175 Flushing Avenue in Brooklyn this Friday. I sent email reply asking him to send me pdf's of any rpts more recent than their 3/15/10 Suppl'tal Mon Well Install'n & Sampling Rpt, and noting that Joe Maisonave's notes indicated he was expecting a Remedial Action Rpt in late 2010. Eichler sent reply: We re finalizing RAR. We ve had some delays with project, but chemox injections went smoothly. We ll have RAR to you soon. - J. Kolleeny 06/03/11: Reviewed May 2011 Remedial Action Rpt by P.W. Grosser (in eDocs). Rpt summarizes injections of RegenOx and ORC Advanced in August and Sept. 2010 and gives results of GW sampling done in Feb. and Oct. 2010, before and after injections. Most impacted wells, MW-1 and MW-2, showed significant declines in contaminant levels after injections: MW-1 had 1,021 ug/L total VOCs in Oct. 2010, down from 12,413 ug/L in Feb. 2010; MW-2 had 892 ug/L tVOCs in Oct. 2010, down from 4,540 ug/L in Feb. 2010. Rpt recommends replacing wells MW-5 and MW-7, which were damaged/destroyed (resp.) by site activities, and continued quarterly GW sampling to monitor contam trends. I sent email (in eDocs) to James Ruggiero (RP, jcr327@aol.com), cc to John Eichler of PWGC, approving these recommendations. Changed site priority ranking from P0 to P2 since site is in follow-up monitoring after remedial action. - J. Kolleeny 04/13/12: Received email from John Eichler of PWGC, with attached pdf file of GW Mon Rpt by PWGC (rpt was dated Jan. 2012 until I pointed this out to John, then he sent rpt with April 2012 on title page; both are in eDocs). Email stated: Jon, Attached is GW mon rpt for this site. We intend to replace damaged monitoring wells and perform another round of sampling in very near future. I will give you 2 weeks notice of this fieldwork. Please contact me with your questions and comments. Rpt presents results of GW sampling in Dec. 2011; four of 7 wells were sampled; MW-3 and MW-7 could not be found and MW-5 is partially filled with sediment so could not be sampled. Sample results for wells sampled show significant impacts only in MW-1, which had 4,207 ug/L total VOCs (up from 1,748 ug/L in May 2011). PWGC recommends continued quarterly GW sampling and replacement of wells MW-3, MW-5 and MW-7. I sent email (in eDocs) to James Ruggiero (RP, jcr327@aol.com), cc to John Eichler, approving continued quarterly GW sampling and replacement of wells MW-5 and MW-7; said MW-3 need not be replaced at this time, but if significant increases in VOCs are seen in wells MW-4 and/or MW-7, then MW-3 should be replaced. I further noted that if contam in MW-1 does not decrease significantly, then addt'l injections and/or other remedial actions may be warranted. - JK 10/04/12: Received email from John Eichler of PWGC: Jon, We will be replacing and repairing damaged monitoring wells at Spill Site # 05-10000 located at 1175 Flushing Avenue in Brooklyn on Saturday, October 13, 2012. We will sample wells approximately 2 weeks after that. Please contact me if you have any questions or comments. Thank you. - J. Kolleeny 03/06/13: I sent

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email to John Eichler of PWGC: John, It's been a while since I've heard anything about this site or received a GW monitoring rpt. Latest GW data I have are from Dec. 2011 (submitted in an April 2012 monitoring rpt). Your email below [10/4/12] states that damaged monitoring wells at site were to be replaced in Oct. 2012, and then sampled two weeks afterwards. Were damaged wells replaced? If so, which ones? April 2012 rpt indicates that well MW-5 was dry, having been partly filled in with sediment; MW-5 is only well down-gradient of former UST area, where RegenOx/ORC Advanced injections were performed, so replacement (or flushing/redevelopment) of that well is critical. Have monitoring wells (replaced and previously existing) been sampled? I've had an inquiry regarding this site from my supervisors here at DEC. Please provide a project update as soon as possible. Received email reply from Eichler: Jon, We replaced monitoring wells MW-2 and MW-7, and repaired MW-4. I checked MW-5 during repair and it appears to be viable. So all of wells, with exception of MW-3 (consistently outside impacted area), are ready to be sampled. I have impressed upon owner importance of sampling wells as soon as possible. I expect that he will respond quickly and I will let you know as soon as we schedule a round. Please contact me if you would like to discuss this further. I then sent reply: Thanks for your quick response. If I understand your email correctly, replacement wells were installed but no GW sampling has been done at site since Dec. 2011. Please let me know if you need me to contact owner about doing sampling. Eichler sent reply: Thanks. Jaime Ruggiero (owner) just responded to me. It looks like we re back on track. I will contact you next week with schedule. - J. Kolleeny 04/16/13: On 4/84/13, I sent email to John Eichler of PWGC: John, Have you been able to schedule a round of GW sampling at this site? Recently, DEC has been concerned about housekeeping practices at this site (an active scrap processing facility), and I would like to be able to confirm that on-site activities are not adversely impacting monitoring wells and GW in general. Please let me know as soon as possible. On 4/16/13, Eichler sent reply: Jon, We re looking to sample monitoring wells at 1175 Flushing Ave, Brooklyn on Saturday, May 4. Please contact me if you have any questions. - J. Kolleeny 06/05/13: Received email from John Eichler of PWGC: Jon, I just wanted to let you know that we did sample monitoring wells at 1175 Flushing Ave on May 29th. I am expecting data soon and will prepare a rpt for your review. Please contact me if you have any questions. - JK 10/23/13: I sent email to John Eichler of PWGC: John, I haven't heard from you about this site in a while (since April 2013). Was a round of GW sampling performed? If so, was a rpt prepared? Please send update on status of site, and if GW sampling was done, please send monitoring rpt or at least lab data. Eichler sent reply: Jon, I ll send you data tables for last round of sampling, and a rpt. Owner of property is looking to redevelop site. Redevelopment would include some more remediation. I will contact you soon to discuss this with you. - J. Kolleeny 11/05/13: Received email from John Eichler of PWGC: Jon, Attached is historical data table for 1175 Atlantic [sic] Avenue, Brooklyn. As you know, site underwent an initial remedial excavation and subsequent chemical injection. However, gasoline-related VOCs remain elevated in portions of site. I will call you soon to discuss site s options. Data (in eDocs) show significant increases in contam levels in a number of wells: well MW-1 had 6,159 ug/L total VOCs (up from 4,207 ug/L in Dec. 2011), well MW-2 had 24,002 ug/L tVOCs (up dramatically from 86 ug/L in Dec.

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2011), well MW-4 had 392 ug/L tVOCs (up from ND in Dec. 2011), well MW-7 had 992 ug/L tVOCs (up from 144 ug/L in Dec. 2011). I sent email to Eichler: John, Thanks for sending May 2013 GW data. I took a quick look and compared results with data from Dec. 2011, and I'm a little alarmed by dramatic increase in total VOCs in well MW-2. That well only had 86 ug/L total VOCs in Dec. 2011, but May 2013 result shows 24,000 ug/L tVOCs! A site plan in April 2012 rpt shows well MW-2 on up-gradient edge of site (along Stewart Ave.), in terms of GW flow direction. Were wells gauged in May 2013 to determine up-to-date flow direction? Do you have any ideas of what could have caused dramatic increase in total VOCs in well MW-2? Feel free to call to discuss. Eichler sent reply: Jon, MW-2 is one of wells we re-installed (due to damage) prior to last sampling. While new location is only a few ft from old location (in order to avoid vehicles), it seems we hit a hotter spot. I will call you. - J. Kolleeny 07/24/14: Reviewed GW Monitoring Rpt May 2014 by PW Grosser Consulting, Inc., received via email from John Eichler on 7/22/14 (in DecDocs). Eichler's email stated: Jon, Attached for your review is Monitoring Well Sampling Rpt for 1175 Flushing Ave in Brooklyn. Results of this most recent sampling round indicate a decrease in contaminant concentrations. PWGC recommends continued GW monitoring and removal of a recently-discovered out-of-service fuel oil UST located in subject building. Please contact me with your questions and comments. Rpt presents results of well gauging and sampling in May 2014. No LNAPL was detected in any wells. Depth to water/water table elevation measurements suggest GW flow to NE. GW samples were collected from 5 existing mon wells; well MW-7, in area of site operations (auto scrapping), was destroyed (2nd time a well at that location has been destroyed by site ops). Sample results show well MW-1 had 2,675 ug/L total VOCs (down from 6,159 ug/L in May 2013), well MW-2 had 1,110 ug/L tVOCs (down dramatically from 24,002 ug/L in May 2013), well MW-3 was ND (same as in May 2013), well MW-4 had 0.92 ug/l of benzene (below std), with no other detections (down from 392 ug/L in May 2013), well MW-5 was ND (down from 22 ug/L tVOCs in May 2013), well MW-6 had 4 VOC J detections of ~1-2 ug/L each (was ND in May 2013). Rpt states that absence of contam in up-gradient wells MW-5 & MW-6 indicate contam is from on-site source, and based on contam levels in MW-1 & MW-2, PWGC recommends continued GW sampling to monitor GW quality trends. Rpt makes no mention of recently discovered fuel oil UST mentioned in Eichler's email. On 7/24/14, I sent email to Eichler, cc to James Ruggiero, RP (jcr327@aol.com): John, Thanks for monitoring rpt. I agree with recommendation to remove out-of-service fuel oil UST. Tank should be registered and listed as removed by filing a PBS Application/Information Correction Form, and a UST Closure Assessment should be performed and results presented in a Closure Rpt. I also agree with recommendation for addt'l GW sampling to monitor trends in contaminant concentrations. However, I'm not sure if we have ever agreed formally on a GW monitoring schedule for this site. Table 3 in rpt, with historical GW sampling results, shows sampling events performed at irregular intervals ranging from about 6 months to about a year and a half. Other spill sites I manage which have comparable contaminant levels in GW are usually on a quarterly sampling schedule, and I'd like to require quarterly sampling at this site as a way to keep closer track of GW trends, evaluate possible need for addt'l remedial injections, and expedite movement of this case towards closure. Please discuss this with your client and let me know if he will agree to this schedule. Also, I'd like to request two

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small modifications to future monitoring rpts: (1) Table 2 lists main gasoline-related compounds that DEC regulates, which is good, but it lacks a line for Total VOCs; please add a line for Total VOCs to this table in future rpts. (2) Table 3, with historical GW data, provides a complete list of all VOCs; analyte list should be reduced to report only gasoline-related VOCs as listed in Table 2. These changes will help facilitate my review of rpts. Please let me know if these changes can be made to monitoring rpts. Feel free to contact me if you have any questions/comments. - J. Kolleeny 06/08/15: Reviewed GW Mon Rpt for May 2015 (in DecDocs), submitted via email from John Eichler of PW Grosser on 6/1/15. GW gauging & sampling in April 2015 showed no LNAPL detected; well MW-1 had 3,596 ug/L total VOCs (up from 2,675 ug/L in May 2014), well MW-2 had 1,566 ug/L tVOCs (up from 1,110 ug/L in May 2014), well MW-3 was not sampled, well MW-4 was virtually ND (same as May 2014), well MW-5 had 25 ug/L tVOCs (was ND in May 2014), well MW-6 had 20 ug/L tVOCs (up from ND in May 2014), well MW-7 has been destroyed by site operations (for 2nd time). Rpt states that MW-3 is consistently located outside of contaminant plume. Water table map shows GW flow direction to SE. Rpt text concludes that contam levels decreased after chem ox injections, but then increased in May 2013, possibly due to changes in water table elevations or GW flow direction related to dewatering in subway tunnel adjacent to site; levels decreased again in May 2014. Data for May 2015 show migration of contam from source area around MW-1 in direction of GW flow to NE (?sic) towards MW-2. PW Grosser recommends continued sampling to monitoring GW quality trends at site. - J. Kolleeny Spill transferred from J. Kolleeny to K. Forster since property is part of the BCP (K. Forster) 3/30/17: Working with BCP Consultant, Environmental Business Consultants, to submit a work plan for the off-site groundwater investigation. - K. Forster Consultant is awaiting disposal facility acceptance based on waste characterization sampling results. Remedial work is anticipated to begin in April. jeb (3/29/2018) 6/30/21: BCA for Site C224210 terminated due to lengthy delays. Sent request to James Ruggiero for a work plan to address remaining groundwater contamination. New attorney representing James. Maggie Macdonald, mmacdonald@sprlaw.com. - kmf"

Remarks: "phase 2 investigation."

All Materials:

Site ID:	355883
Operable Unit ID:	1113215
Operable Unit:	01
Material ID:	2103281
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	True

Site ID:	355883
Operable Unit ID:	1113215
Operable Unit:	01
Material ID:	2159416
Material Code:	1213A

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Material Name:	MTBE (methyl-tert-butyl ether)
Case No.:	01634044
Material FA:	Hazardous Material
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	True
Site ID:	355883
Operable Unit ID:	1113215
Operable Unit:	01
Material ID:	2159417
Material Code:	2645A
Material Name:	BTEX
Case No.:	Not reported
Material FA:	Oxygenates
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	True

AQ249 **1884 FLUSHING AVENUE** **NY LTANKS** **S102143431**
East **1884 FLUSHING AVENUE** **NY Spills** **N/A**
1/4-1/2 **RIDGEWOOD, NY**
0.483 mi.
2549 ft. **Site 2 of 2 in cluster AQ**

Relative:
Higher

Actual:
28 ft.

LTANKS:

Name:	1884 FLUSHING AVENUE
Address:	1884 FLUSHING AVENUE
City,State,Zip:	RIDGEWOOD, NY
Spill Number/Closed Date:	9307524 / 1995-03-31
Facility ID:	9307524
Site ID:	71544
Spill Date:	1993-09-21
Spill Cause:	Tank Overfill
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	C3
Cleanup Ceased:	1995-03-31
SWIS:	4101
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	1993-09-21
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1993-09-22
Spill Record Last Update:	2003-10-30
Spiller Name:	Not reported
Spiller Company:	CHEEMA CONTRACT.
Spiller Address:	Not reported
Spiller County:	001

1884 FLUSHING AVENUE (Continued) **S102143431**

Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	67685
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG "
Remarks:	"FIELD PORT - RAN DOWN STREET W/ RAIN WATER - SEWER AFFECTED OVERFILLED FIELD PORT - KOON TANG ON SITE."

All Materials:

Site ID:	71544
Operable Unit ID:	988605
Operable Unit:	01
Material ID:	393784
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

SPILLS:

Name:	18-84 FLUSHING AVE.
Address:	18-84 FLUSHING AVE.
City,State,Zip:	QUEENS, NY
Spill Number/Closed Date:	9209246 / 1992-11-09
Facility ID:	9209246
Facility Type:	ER
DER Facility ID:	326181
Site ID:	161416
DEC Region:	2
Spill Cause:	Deliberate
Spill Class:	C4
SWIS:	4101
Spill Date:	1992-11-09
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	1992-11-09
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	1992-11-09
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-11-10
Spill Record Last Update:	2007-01-26
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported

1884 FLUSHING AVENUE (Continued) **S102143431**

Spiller Company: 001
Contact Name: Not reported
DEC Memo: ""
Remarks: "DELIBERATELY DUMPING GASOLINE DOWN SEWER HAZ MAT ON SCENE DEP WILL BE RESPONDING NO CALL BACK NECESSARY"

All Materials:
Site ID: 161416
Operable Unit ID: 972898
Operable Unit: 01
Material ID: 406304
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Not reported
Recovered: .00
Oxygenate: Not reported

Name: 18-84 FLUSHING AVE.
Address: 18-84 FLUSHING AVE.
City,State,Zip: QUEENS, NY
Spill Number/Closed Date: 9209883 / 2004-04-12
Facility ID: 9209883
Facility Type: ER
DER Facility ID: 326181
Site ID: 161417
DEC Region: 2
Spill Cause: Unknown
Spill Class: D4
SWIS: 4101
Spill Date: 1992-11-24
Investigator: SJMILLER
Referred To: Not reported
Reported to Dept: 1992-11-24
CID: Not reported
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1992-11-24
Spill Record Last Update: 2007-01-26
Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller Company: 001
Contact Name: Not reported
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was S. MILLER CLOSED BY ROMMEL."
Remarks: ""

1884 FLUSHING AVENUE (Continued) **S102143431**

All Materials:

Site ID:	161417
Operable Unit ID:	973705
Operable Unit:	01
Material ID:	406914
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

---

250 South 1/4-1/2 0.487 mi. 2573 ft.

COGENT TRANSFER; LLC
105-115 THAMES STREET
BROOKLYN, NY 11237

NY SWF/LF **S126508458**
NY Financial Assurance **N/A**

Relative: Higher

Actual: 25 ft.

SWF/LF:

Name:	COGENT TRANSFER; LLC
Address:	105-115 THAMES STREET
City,State,Zip:	BROOKLYN, NY 11237
Flag:	ACTIVE
Region Code:	2
Phone Number:	7184561307
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Aziz Kahany
Contact Address:	105-115 Thames Street
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY 11237
Contact Email:	azizkahany@yahoo.com
Contact Phone:	7184561307
Activity Desc:	Transfer station - permit
Activity Number:	[24T40]
Active:	Yes
East Coordinate:	590503
North Coordinate:	4506611
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	MSW (Residential/Institutional & Commercial);Corrugated Cardboard;Metals (Ferrous & Non-Ferrous)
Authorization #:	2-6104-00096/00002
Authorization Date:	6/3/2020
Expiration Date:	4/28/2021
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

COGENT TRANSFER; LLC (Continued) **S126508458**

NY Financial Assurance 1:

Name:	COGENT TRANSFER; LLC
Address:	105-115 THAMES STREET
City,State,Zip:	BROOKLYN, NY
Owner Name:	Nino Tristani
Region:	2
Estimate Type:	Closure
Estimate Amount:	136,000
Estimate Date:	03/01/2001
Mechanism:	Surety bond - Performance
Mechanism Amount:	165,000
Issue Date:	10/19/2010
Activity Number:	24T40
Activity Description:	z Retired - Transfer station - permit

AS251 **57-00 MASPETH AVE LLC** **NY SWF/LF** **U001835911**
NNE **5700 47TH ST** **NY UST** **N/A**
1/4-1/2 **MASPETH, NY 11378** **NY AST**
0.488 mi. **NY Spills**
2576 ft. **Site 1 of 2 in cluster AS**

Relative: **Lower**
Actual: **7 ft.**

SWF/LF:

Name:	PEBBLE LANE ASSOCIATES LLC
Address:	57-00 47TH STREET
City,State,Zip:	MASPETH, NY 11378
Flag:	ACTIVE
Region Code:	2
Phone Number:	7184562520
Owner Name:	US Concrete; Inc
Owner Type:	Private
Owner Address:	331 N. Main Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Euless, TX 76039
Owner Email:	Not reported
Owner Phone:	8178254105
Contact Name:	Gerard Weldon
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	gweldon@us-concrete.com
Contact Phone:	7184562520
Activity Desc:	C&D processing - registration
Activity Number:	[41W64]
Active:	Yes
East Coordinate:	590991
North Coordinate:	4508196
Accuracy Code:	2.1 - NYSDEC 100 m grid collection
Regulatory Status:	Registration
Waste Type:	Asphalt;Brick;Concrete;Rock;Soil (Clean);Glass;Metals (Ferrous);Metals (Non-Ferrous);Construction & Demolition Debris
Authorization #:	41W64
Authorization Date:	4/27/2009
Expiration Date:	Not reported
Operator Name:	Anthony Bruno
Operator Type:	Not reported
Laste Date:	5/5/2021

57-00 MASPETH AVE LLC (Continued) **U001835911**

UST:

Name:	57-00 MASPETH AVE LLC
Address:	5700 47TH ST
City,State,Zip:	MASPETH, NY 11378
Id/Status:	2-318744 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	12/16/2018
UTM X:	590958.14326
UTM Y:	4508126.22378
Site Type:	Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id:	14712
Affiliation Type:	Mail Contact
Company Name:	57-00 MASPETH AVENUE, LLC
Contact Type:	Not reported
Contact Name:	ROSSANA BORTONE
Address1:	57-00 47TH STREET
Address2:	Not reported
City:	MASPETH
State:	NY
Zip Code:	11378
Country Code:	001
Phone:	(718) 456-8636
EMail:	PFIEFFER40@AOL
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2014-02-27

Site Id:	14712
Affiliation Type:	Facility Operator
Company Name:	57-00 MASPETH AVE LLC
Contact Type:	Not reported
Contact Name:	ROSSANA BORTONE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 456-8636
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2013-12-16

Site Id:	14712
Affiliation Type:	Facility Owner
Company Name:	57-00 MASPETH AVENUE LLC
Contact Type:	OWNER
Contact Name:	ROSSANA BORTONE
Address1:	57-00 47TH STREET
Address2:	Not reported
City:	MASPETH
State:	NY

57-00 MASPETH AVE LLC (Continued) **U001835911**

Zip Code:	11378
Country Code:	001
Phone:	(718) 456-8636
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2014-02-27

Site Id:	14712
Affiliation Type:	Emergency Contact
Company Name:	5700 MASPETH AVENUE LLC
Contact Type:	Not reported
Contact Name:	ROSSANA BORTONE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 456-8636
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-09-08

Tank Info:

Tank Number:	001
Tank ID:	16720
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	10/01/1985
Date Tank Closed:	09/19/2013
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0008
Common Name of Substance:	Diesel

Tightness Test Method:	21
Date Test:	12/21/2007
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
G03 - Tank Secondary Containment - Vault (w/o access)
I02 - Overfill - High Level Alarm
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground

57-00 MASPETH AVE LLC (Continued) **U001835911**

H05 - Tank Leak Detection - In-Tank System (ATG)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
F02 - Pipe External Protection - Original Sacrificial Anode

Tank Number:	002
Tank ID:	16721
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	10/01/1985
Date Tank Closed:	12/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
F02 - Pipe External Protection - Original Sacrificial Anode

Tank Number:	003
Tank ID:	16722
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	10/01/1985
Date Tank Closed:	12/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

B00 - Tank External Protection - None

57-00 MASPETH AVE LLC (Continued) **U001835911**

C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
F02 - Pipe External Protection - Original Sacrificial Anode
D00 - Pipe Type - No Piping

Tank Number: 004
Tank ID: 16723
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 1080
Install Date: 10/01/1985
Date Tank Closed: 12/01/1998
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 9999
Common Name of Substance: Other

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

B02 - Tank External Protection - Original Sacrificial Anode
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D00 - Pipe Type - No Piping
F02 - Pipe External Protection - Original Sacrificial Anode

AST:
Name: 57-00 MASPETH AVE LLC
Address: 5700 47TH ST
City,State,Zip: MASPETH, NY 11378
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-318744
Program Type: PBS
UTM X: 590958.14326
UTM Y: 4508126.22378
Expiration Date: 12/16/2018
Site Type: Trucking/Transportation/Fleet Operation

Affiliation Records:
Site Id: 14712
Affiliation Type: Mail Contact

57-00 MASPETH AVE LLC (Continued) **U001835911**

Company Name:	57-00 MASPETH AVENUE, LLC
Contact Type:	Not reported
Contact Name:	ROSSANA BORTONE
Address1:	57-00 47TH STREET
Address2:	Not reported
City:	MASPETH
State:	NY
Zip Code:	11378
Country Code:	001
Phone:	(718) 456-8636
EMail:	PFIEFFER40@AOL
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2014-02-27

Site Id:	14712
Affiliation Type:	Facility Operator
Company Name:	57-00 MASPETH AVE LLC
Contact Type:	Not reported
Contact Name:	ROSSANA BORTONE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 456-8636
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2013-12-16

Site Id:	14712
Affiliation Type:	Facility Owner
Company Name:	57-00 MASPETH AVENUE LLC
Contact Type:	OWNER
Contact Name:	ROSSANA BORTONE
Address1:	57-00 47TH STREET
Address2:	Not reported
City:	MASPETH
State:	NY
Zip Code:	11378
Country Code:	001
Phone:	(718) 456-8636
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2014-02-27

Site Id:	14712
Affiliation Type:	Emergency Contact
Company Name:	5700 MASPETH AVENUE LLC
Contact Type:	Not reported
Contact Name:	ROSSANA BORTONE
Address1:	Not reported
Address2:	Not reported
City:	Not reported

57-00 MASPETH AVE LLC (Continued) **U001835911**

State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 456-8636
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-09-08

Tank Info:

Tank Number:	005
Tank Id:	16724
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
A00 - Tank Internal Protection - None
I00 - Overfill - None
L09 - Piping Leak Detection - Exempt Suction Piping
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
F02 - Pipe External Protection - Original Sacrificial Anode

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Fiberglass Reinforced Plastic
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	10/01/1985
Capacity Gallons:	6000
Tightness Test Method:	14
Date Test:	11/22/2002
Next Test Date:	Not reported
Date Tank Closed:	03/08/2006
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

Tank Number:	2
Tank Id:	235859
Material Code:	0015
Common Name of Substance:	Motor Oil

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G09 - Tank Secondary Containment - Modified Double-Walled

57-00 MASPETH AVE LLC (Continued) **U001835911**

(Aboveground)
H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
L00 - Piping Leak Detection - None

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/03/2000
Capacity Gallons:	180
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	04/14/2017
Material Name:	motor oil
Tank Number:	3
Tank Id:	235860
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
H00 - Tank Leak Detection - None
E00 - Piping Secondary Containment - None
I00 - Overfill - None
J00 - Dispenser - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/03/2000
Capacity Gallons:	180
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	04/14/2017

57-00 MASPETH AVE LLC (Continued) **U001835911**

Material Name: waste oil/used oil

SPILLS:
Name: 57-00 47TH ST
Address: 57-00 47TH ST
City,State,Zip: MASPETH, NY
Spill Number/Closed Date: 9411004 / 1994-11-17
Facility ID: 9411004
Facility Type: ER
DER Facility ID: 125954
Site ID: 147965
DEC Region: 2
Spill Cause: Deliberate
Spill Class: C4
SWIS: 4101
Spill Date: 1994-11-17
Investigator: SMMARTIN
Referred To: Not reported
Reported to Dept: 1994-11-17
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Federal Government
Cleanup Ceased: 1994-11-17
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1994-12-09
Spill Record Last Update: 2004-03-29
Spiller Name: Not reported
Spiller Company: ISLAND TRANSPORTATION
Spiller Address: Not reported
Spiller Company: 999
Contact Name: Not reported
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MARTINKAT "
Remarks: "NYC DEP WAS NOTIFIED"

All Materials:
Site ID: 147965
Operable Unit ID: 1004912
Operable Unit: 01
Material ID: 376868
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: G
Recovered: .00
Oxygenate: Not reported

AS252 **ISLAND TRANS CORP** **NY LTANKS** **S104495815**
NNE **5700 47TH STREET** **N/A**
1/4-1/2 **MASPETH, NY**
0.488 mi.
2576 ft. **Site 2 of 2 in cluster AS**

Relative: **Lower**

Actual: **7 ft.**

LTANKS:

Name:	ISLAND TRANS CORP
Address:	5700 47TH STREET
City,State,Zip:	MASPETH, NY
Spill Number/Closed Date:	0709978 / 2007-12-28
Facility ID:	0709978
Site ID:	391172
Spill Date:	2007-12-18
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	4101
Investigator:	bkfalvey
Referred To:	Not reported
Reported to Dept:	2007-12-18
CID:	444
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2007-12-18
Spill Record Last Update:	2008-06-30
Spiller Name:	CHRIS MALLOY
Spiller Company:	Not reported
Spiller Address:	5700 47TH STREET
Spiller County:	001
Spiller Contact:	CHRIS MALLOY
Spiller Phone:	(413) 572-1900
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	340805
DEC Memo:	"12/21/07 Received call from Sean Healy of Getty. He believes the vent line failed due to fitting at tank was loose. No contamination found. Metro Environmental will be testing line tonight. Will send test report and letter. bf 12/28/07 received fax from Laurie Jodice of Tyree. There was a crossover line that was not removed. Fitting for line was plugged and tank was restested by Metro Environmental and passed. Called Sean Healy and he told me no signs of petroleum contamination was found during repairs. He then transferred me to Laurie Jodice of Tyree who is the project manager. I told her I need test results and letter regarding contamination. She said that she will send letter and send test results when she gets them. Letter stating no visdible signs of petroleum contamination received by fax from L. Jodice. Received passing tightness test results. NFA. bf"
Remarks:	"PBS No: 2-318744"

All TTF:

Facility ID:	0709978
Spill Number:	0709978
Spill Tank Test:	2384326

ISLAND TRANS CORP (Continued) **S104495815**

Site ID:	391172
Tank Number:	Not reported
Tank Size:	4000
Material:	0008
EPA UST:	Not reported
UST:	True
Cause:	99
Source:	01
Test Method:	14
Test Method 2:	VacuTest
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified Date:	Not reported

All Materials:

Site ID:	391172
Operable Unit ID:	1148233
Operable Unit:	01
Material ID:	2138722
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

253
WNW
1/4-1/2
0.490 mi.
2587 ft.

BKLYN UNION GAS /EQUITY WORKS **SEMS-ARCHIVE** **1003863854**
MASPETH & MORGAN AVE **NYD980532048**
BROOKLYN, NY 11222

Relative:
Higher

Actual:
24 ft.

SEMS Archive:

Site ID:	0201980
EPA ID:	NYD980532048
Name:	BKLYN UNION GAS /EQUITY WORKS
Address:	MASPETH & MORGAN AVE
Address 2:	Not reported
City,State,Zip:	BROOKLYN, NY 11222
Cong District:	12
FIPS Code:	36047
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	02
Site ID:	0201980
EPA ID:	NYD980532048
Site Name:	BKLYN UNION GAS /EQUITY WORKS
NPL:	N
FF:	N
OU:	00
Action Code:	VS

BKLYN UNION GAS /EQUITY WORKS (Continued) **1003863854**

Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1986-09-24 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse
Region:	02
Site ID:	0201980
EPA ID:	NYD980532048
Site Name:	BKLYN UNION GAS /EQUITY WORKS
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1986-09-05 04:00:00
Finish Date:	1986-09-24 04:00:00
Qual:	N
Current Action Lead:	EPA Perf
Region:	02
Site ID:	0201980
EPA ID:	NYD980532048
Site Name:	BKLYN UNION GAS /EQUITY WORKS
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1981-06-01 04:00:00
Finish Date:	1981-06-01 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

254
West
1/4-1/2
0.492 mi.
2597 ft.

881-889 GRAND STREET DEVELOPMENT
885 GRAND ST
BROOKLYN, NY 11211

RCRA-LQG **1000458276**
NY LTANKS **NYD986936649**
NY MANIFEST

Relative:
Higher

Actual:
36 ft.

RCRA-LQG:

Date Form Received by Agency:	20180220
Handler Name:	881-889 GRAND STREET DEVELOPMENT
Handler Address:	885 GRAND ST
Handler City,State,Zip:	BROOKLYN, NY 11211
EPA ID:	NYD986936649
Contact Name:	CHARLES POWERS
Contact Address:	NEWTOWN RD
Contact City,State,Zip:	PLAINVIEW, NY 11803
Contact Telephone:	516-932-3228 101
Contact Fax:	516-932-3288
Contact Email:	CPOWERS@CNSENVIRO.COM
Contact Title:	PRESIDENT-CNS ENVIRONMENTAL
EPA Region:	02

881-889 GRAND STREET DEVELOPMENT (Continued) **1000458276**

Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2017
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	BROADWAY
Mailing City,State,Zip:	BRONX, NY 10463
Owner Name:	885 GRAND STREET CORP
Owner Type:	Private
Operator Name:	885 DEVELOPMENT LLC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No

881-889 GRAND STREET DEVELOPMENT (Continued) **1000458276**

Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20181106
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2017

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	885 DEVELOPMENT LLC
Legal Status:	Private
Date Became Current:	20170601
Date Ended Current:	Not reported
Owner/Operator Address:	5925 BROADWAY
Owner/Operator City,State,Zip:	BRONX, NY 10463
Owner/Operator Telephone:	718-884-7676
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GEORGE ADOMAITES
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	56-29 METROPOLITAN AVE
Owner/Operator City,State,Zip:	QUEENS, NY 11385
Owner/Operator Telephone:	718-366-1881
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GEORGE ADOMAITES
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	56-29 METROPOLITAN AVE

881-889 GRAND STREET DEVELOPMENT (Continued) **1000458276**

Owner/Operator City,State,Zip:	QUEENS, NY 11385
Owner/Operator Telephone:	718-366-1881
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	885 GRAND STREET CORP
Legal Status:	Private
Date Became Current:	20040228
Date Ended Current:	Not reported
Owner/Operator Address:	5925 BROADWAY
Owner/Operator City,State,Zip:	BRONX, NY 10463
Owner/Operator Telephone:	718-884-7676
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	85 DEVELOPMENT LLC
Legal Status:	Private
Date Became Current:	20170601
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	885 GRAND STREET CORP
Legal Status:	Private
Date Became Current:	20040228
Date Ended Current:	Not reported
Owner/Operator Address:	5925 BROADWAY
Owner/Operator City,State,Zip:	BRONX, NY 10463
Owner/Operator Telephone:	718-884-7676
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	GEORGE ADOMAITES
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	56-29 METROPOLITAN AVE
Owner/Operator City,State,Zip:	QUEENS, NY 11385
Owner/Operator Telephone:	718-366-1881
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	885 GRAND STREET CORP
Legal Status:	Private

881-889 GRAND STREET DEVELOPMENT (Continued) **1000458276**

Date Became Current:	20040228
Date Ended Current:	Not reported
Owner/Operator Address:	5925 BROADWAY
Owner/Operator City,State,Zip:	BRONX, NY 10463
Owner/Operator Telephone:	718-884-7676
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	GEORGE ADOMAITES
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	56-29 METROPOLITAN AVE
Owner/Operator City,State,Zip:	QUEENS, NY 11385
Owner/Operator Telephone:	718-366-1881
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	85 DEVELOPMENT LLC
Legal Status:	Private
Date Became Current:	20170601
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GEORGE ADOMAITES
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	56-29 METROPOLITAN AVE
Owner/Operator City,State,Zip:	QUEENS, NY 11385
Owner/Operator Telephone:	718-366-1881
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GEORGE ADOMAITES
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	56-29 METROPOLITAN AVE
Owner/Operator City,State,Zip:	QUEENS, NY 11385
Owner/Operator Telephone:	718-366-1881
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

881-889 GRAND STREET DEVELOPMENT (Continued) **1000458276**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GEORGE ADOMAITES
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	56-29 METROPOLITAN AVE
Owner/Operator City,State,Zip:	QUEENS, NY 11385
Owner/Operator Telephone:	718-366-1881
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20180220
Handler Name:	881-889 GRAND STREET DEVELOPMENT
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	19990708
Handler Name:	J & M AUTO REPAIRS
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060101
Handler Name:	J & M AUTO REPAIRS
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101
Handler Name:	J & M AUTO REPAIRS
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	NY
Large Quantity Handler of Universal Waste:	No

881-889 GRAND STREET DEVELOPMENT (Continued) **1000458276**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20170616
Handler Name: 881-889 GRAND STREET DEVELOPMENT
Federal Waste Generator Description: Not a generator, verified
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19910111
Handler Name: J & M AUTO REPAIRS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20170608
Handler Name: 881-889 GRAND STREET DEVELOPMENT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 23611
NAICS Description: RESIDENTIAL BUILDING CONSTRUCTION

NAICS Code: 236116
NAICS Description: NEW MULTIFAMILY HOUSING CONSTRUCTION (EXCEPT OPERATIVE BUILDERS)

Facility Has Received Notices of Violations:
Violations: No Violations Found

881-889 GRAND STREET DEVELOPMENT (Continued) **1000458276**

Evaluation Action Summary:
Evaluations: No Evaluations Found

LTANKS:

Name:	J & M GAS
Address:	885 GRAND STREET
City,State,Zip:	BROOKLYN, NY 11211
Spill Number/Closed Date:	8901284 / 2008-07-21
Facility ID:	8901284
Site ID:	92038
Spill Date:	1989-05-09
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	A3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	MJHAGGER
Referred To:	Not reported
Reported to Dept:	1989-05-09
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1989-05-09
Spill Record Last Update:	2008-07-22
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	30485
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL SEE SPILL NUMBER 8908532. 4/12/04-Vought-Spill transferred from Sullivan to Rommel as per Rommel. 2/2/07 - Haggerty - Alphonse Milo (718-388-7575) brought the property shortly after the tank test failures and is still owner today. He states he is will be building a parking lot on the subject property and all soil will be excavated for the foundation. I instructed Mr. Milo to contact the DEC as soon as possible because there is a good chance contamination is present. Spill to remain open 10/4/07 - Haggerty - received Phase II subsurface Investigation report from Al Milo. Phase II completed to satisfy the bank requirement. Report states that all soil samples and groundwater samples are below standards. MW's in the area surrounding the former tank field. No groundwater contamination was detected. PM stated that all tanks must be properly closed out in PBS wether tanks are registered or previously unknown and this spill will remain open until this is resolved. 07/21/08 - Haggerty: Spoke with Mrs. Milo. She stated that the PBS issue has been resovled. I checked the PBS

881-889 GRAND STREET DEVELOPMENT (Continued) **1000458276**

records to confirm. PBS# 2-478075. Spill closed"
Remarks: "THREE 550 GALLON TANKS FAIL HORNER-EZY CHEK - LR = -0.11982 GPH. NO DECISION ON ACTION TO BE TAKEN. ."

All TTF:
Facility ID: 8901284
Spill Number: 8901284
Spill Tank Test: 1535443
Site ID: 92038
Tank Number: Not reported
Tank Size: 0
Material: 1213A
EPA UST: Not reported
UST: Not reported
Cause: Not reported
Source: Not reported
Test Method: 00
Test Method 2: Unknown
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 92038
Operable Unit ID: 927414
Operable Unit: 01
Material ID: 449034
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: L
Recovered: .00
Oxygenate: True

Site ID: 92038
Operable Unit ID: 927414
Operable Unit: 01
Material ID: 2135635
Material Code: 1213A
Material Name: MTBE (methyl-tert-butyl ether)
Case No.: 01634044
Material FA: Hazardous Material
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Oxygenate: True

NY MANIFEST:
Name: 881-889 GRAND STREET CORP
Address: 881-889 GRAND ST
City,State,Zip: BROOKLYN, NY 11211
Country: USA
EPA ID: NYD986936649

881-889 GRAND STREET DEVELOPMENT (Continued) **1000458276**

Facility Status:	Not reported
Location Address 1:	885 GRAND STREET
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11211
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD986936649
Mailing Name:	881-889 GRAND STREET CORP
Mailing Contact:	885 GRAND STREET CORP
Mailing Address 1:	881-885 GRAND ST
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11211
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJR986849705
Trans2 State ID:	Not reported
Generator Ship Date:	07/21/2017
Trans1 Recv Date:	07/21/2017
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/21/2017
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986936649
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	017578689JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	Y
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported

881-889 GRAND STREET DEVELOPMENT (Continued) **1000458276**

Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	53680
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

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255 **RAPID ARMORED CORPORATION** **NY SHWS** **S123661630**
WSW **254 SCHOLES STREET** **NY Spills** **N/A**
1/2-1 **BROOKLYN, NY 11206**
0.543 mi.
2866 ft.

Relative:
Higher

Actual:
42 ft.

SHWS:

Name:	RAPID ARMORED CORPORATION
Address:	254 SCHOLES STREET
City,State,Zip:	BROOKLYN, NY 11206
Program:	HW
Site Code:	588258
Classification:	N
Region:	2
Acres:	0.630
HW Code:	224296
Record Add:	05/09/2019
Record Upd:	03/04/2021
Updated By:	KALEWAND
Site Description:	"Location: The subject site consists of 7 separate tax lots (block 3046, lots 22, 24, 26, 27, 47, 48 and 49) and is an irregularly shaped parcel. The following addresses are associated with the Site: 254-258 and 262-264 Scholes Street, and 249-257 Meserole Street. The Site fronts the south side of Scholes Street, extending south to Meserole Street, between Bushwick Avenue and Waterbury Street. The total Site area is approximately 27,500 square feet (0.63 acres). The site is currently used for vehicle maintenance for an armored car service. Site Features: The Site lots are currently occupied with warehouse-style buildings and a surface parking area. The site is surrounded by commercial properties to the south and east, Scholes Street to the north and a playground to the west. Current Zoning and Land Use: The site is zoned M1-1 (light manufacturing/industrial) and is located in an industrial business zone. Past Use of the Site: Historically, the site used for auto repair, machine repair, machine shops, printing, unspecified manufacturing and textile/knitting mill. Site Geology and Hydrogeology: The site is underlain by fill and sands extending to the groundwater interface. Fill layer ranges from 2 to 30 ft thick and consists of brown to red silty sand with concrete, brick and glass fragments. The sand is fine with few cobbles at shallower depths. Groundwater was measured below 32 ft depth."
Env Problem:	"Nature and Extent of Contamination: A limited subsurface

RAPID ARMORED CORPORATION (Continued) **S123661630**

investigation performed in early 2019 consisted of collection of soil, groundwater and soil vapor samples. Soil and groundwater samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, pesticides and PBCs. Soil No VOCs, SVOCs, metals, pesticides or PCBs were detected at concentrations exceeding the unrestricted use soil cleanup objectives. Groundwater VOCs were detected in groundwater at concentrations exceeding the applicable ambient water quality standards (AWQS), including: trichloroethene (TCE) at 16 parts per billion (ppb) compared to the AWQS of 5 ppb; cis-1,2-dichloroethene (DCE) at 220 ppb (AWQS is 5 ppb); vinyl chloride at 150 ppb (AWQS is 5 ppb); 1,2-dichlorobenzene at 410 ppb (AWQS is 3 ppb); and 1,4-dichlorobenzene at 160 ppb (AWQS is 3 ppb). Sub-slab soil vapor VOCs were detected at elevated concentrations including: tetrachloroethene (PCE) at 104 micrograms per cubic meter (ug/m3); TCE at 83 ug/m3; and chloroform at 33 ug/m3. "

Health Problem:	""
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	1
Sub Type:	01
Owner Name:	James L. Sheero
Owner Company:	POM Realty Holdings, Inc.
Owner Address:	160 Oak Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Syosset, NY 11791
Owner Country:	United States of America
Own Op:	4
Sub Type:	E
Owner Name:	James L. Sheero
Owner Company:	Rapid Armored Corporation
Owner Address:	160 Oak Drive
Owner Addr2:	Not reported
Owner City,St,Zip:	Syosset, NY 11791
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

RAPID ARMORED CORPORATION (Continued) **S123661630**

SPILLS:

Name:	COMMERCIAL PROPERTY
Address:	254 SCHOLES ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1812027 / 2021-02-25
Facility ID:	1812027
Facility Type:	ER
DER Facility ID:	536422
Site ID:	583982
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	2401
Spill Date:	2019-03-06
Investigator:	SXWU
Referred To:	Not reported
Reported to Dept:	2019-03-06
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2019-03-06
Spill Record Last Update:	2021-03-30
Spiller Name:	MATTHEW CARROLL
Spiller Company:	COMMERCIAL PROPERTY
Spiller Address:	254 SCHOLES ST
Spiller Company:	999
Contact Name:	MATTHEW CARROLL
DEC Memo:	"3/6/2019 - Feng - Duty Desk. Left Matthew Carroll a message. Matthew Carroll Tenen Environmental 646-606-2332 3/7/2019 - Feng - Received email from Matthew Carroll that he is away on vacation and will call back on Monday. 3/11/2019 - Feng - Call back from Matt Carroll of Tenen Environmental. The site is currently used as an armored car facility. A realty broker company hired him to do a due diligent investigation to know the environmental liability. Unknown there is any development schedule. They installed soil borings. The groundwater samples collected revealed dissolved residual contamination and some chlorinated solvent, not too bad. Because of the cVOCs, they want to consider different program, maybe BCP. They will have a meeting tomorrow. He will update me on the owner's information, sending the Phase 1 and Phase 2 reports and decide whether to enter BCP. 03/13/19-Hiralkumar Patel. received Phase I and II reports from Matt. POM Realty Holdings, Inc. **property owner** 160 Oak Drive Syosset, New York 11791 Attn.: James L. Shreero Ph. (516) 880-8641 email: JShreero@payomatic.com during Phase I, review of available records revealed no evidence of recognized environmental conditions excepts following: - current use of portion of site for vehicle maintenance - historical use of the site for machine repair, machine shops, printing, unspecified manufacturing and textile/knit mill - historical use of the adjoining properties for machine shops, brass works, manufacturing, blacksmithing, auto wrecking, chemical

RAPID ARMORED CORPORATION (Continued) **S123661630**

filling, knit good processing and industrial-sized brewing facilities - presence of a large quantity generator of ignitable hazardous waste on an adjoining property summary of Phase II: - site includes lots # 22, 24, 26, 27, 47, 48 and 49 on block # 3046 - site lots are currently occupied with warehouse-style buildings, used for armored car activities including vehicle maintenance, and surface parking areas - site is underlain by fill and sands extending to the groundwater interface. fill layer ranges from 2 to 30 ft thick and consists of brown to red silty sand with concrete, brick and glass fragments. the sand is fine with few cobbles at shallower depths - installed six (6) soil borings (SB-1 through SB-6) to a depth of 35 ft bg, except boring SB-1 which was installed to a depth of 40 ft bg - signs (staining/odor/PID) of contamination were noted in boring SB-1 only - one soil sample was collected from each boring except boring SB-1 where two soil samples were collected - soil sample from 13-15 ft bg (with highest PID of 595.8 ppm) from SB-1 was lost in transit to the lab, so only one sample from 7-9 ft bg from SB-1 was analyzed - no contamination was noted in soil samples (even with 411.7 ppm on PID in sample from SB-1) - three (3) 1-in temporary wells (MW-1 through MW-3) were installed in soil borings SB-1, SB-2 and SB-3, respectively - well MW-1 was installed to a depth of 45 ft bg; wells MW-2 and MW-3 were installed to a depth of 40 ft bg - groundwater was measured at depths ranging from approx. 32.43 ft bg in MW-2 to 37.31 ft bg in MW-1 - measured 271.6 ppm on PID in headspace of well MW-1 - no visual evidence of petroleum impacts was observed in purged groundwater - minute petroleum VOC contamination (max. 26 ppb Xylene in MW-2) was noted in groundwater samples (even with 271.6 ppm in headspace of well MW-1) - installed four (4) soil-vapor points: probes SS-1 through SS-3 were installed within the existing buildings and probe SV-1 was installed in the exterior parking lot along Meserole St - soil-vapor probes were installed approx. 6 inches below the bottom of the existing concrete or asphalt slabs - minor petroleum VOCs noted in soil-vapor samples (max. 43.3 ug/m3 of Xylene in SS-1) - chlorinated VOCs noted in groundwater and soil-vapor samples groundwater analyticals (in ppb):
----------MW-1-----MW-2-----MW-3
1,1-Dichlorobenzene----------180------410------220
1,4-Dichlorobenzene----------69------160------120
Chlorobenzene----------27-------42-------38
cis-1,2-Dichloroethene----------7-------18------220
TCE----------16
Vinylchloride----------2-------12------150 soil-vapor
analyticals (in ug/m3): ----------SS-1------SS-3
Chloroform----------33---------8
1,1,1-Trichloroethane---------26--------46
TCE----------83--------30
PCE----------104--------15 alternate address
including all lots: 249-257 Meserole St, 254-264 Scholes St no PBS or other spills found. discussed with DEC Jane regarding detection of CVOCs in subsurface. she asked to refer case in couple of weeks if property owner does not meet Section A for BCP pre-application meeting. 12:23 PM:- left message for Matt and informed him about discussion with DEC Jane. 05/02/19-Hiralkumar Patel. 10:17 AM:- spoke with Matt who confirmed that BCP pre-app meeting has not happened yet. 10:36 AM:- sent p-site memo to DEC Jane. case assigned to DEC Jane. Site reclassed P to N 2/25/21. p-site closed out. Consulted with Patel Hiralkumar, no petroleum related concerns, okay to close."

RAPID ARMORED CORPORATION (Continued) **S123661630**

Remarks: "test confirm petro in gw. No tank in place. Investigation and c/u ongoing"

All Materials:
Site ID: 583982
Operable Unit ID: 1331652
Operable Unit: 01
Material ID: 2340864
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Oxygenate: Not reported

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256 **TECHNICAL METAL FINISHERS** **SEMS-ARCHIVE** **1003864057**
SSE **214 STARR STREET** **NY SHWS** **NYD980780894**
1/2-1 **BROOKLYN, NY 11237**
0.607 mi.
3203 ft.

Relative:
Higher

Actual:
34 ft.

SEMS Archive:
Site ID: 0202279
EPA ID: NYD980780894
Name: TECHNICAL METAL FINISHERS
Address: 214 STARR STREET
Address 2: Not reported
City,State,Zip: BROOKLYN, NY 11237
Cong District: 11
FIPS Code: 36047
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
Region: 02
Site ID: 0202279
EPA ID: NYD980780894
Site Name: TECHNICAL METAL FINISHERS
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1997-09-30 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 02
Site ID: 0202279
EPA ID: NYD980780894
Site Name: TECHNICAL METAL FINISHERS
NPL: N
FF: N

TECHNICAL METAL FINISHERS (Continued) **1003864057**

OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1984-09-01 05:00:00
Finish Date: 1984-09-01 05:00:00
Qual: Not reported
Current Action Lead: St Perf

Region: 02
Site ID: 0202279
EPA ID: NYD980780894
Site Name: TECHNICAL METAL FINISHERS
NPL: N
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: 1985-05-01 05:00:00
Finish Date: 1985-05-31 05:00:00
Qual: L
Current Action Lead: St Perf

Region: 02
Site ID: 0202279
EPA ID: NYD980780894
Site Name: TECHNICAL METAL FINISHERS
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1984-09-01 05:00:00
Qual: L
Current Action Lead: St Perf

SHWS:
Name: TECHNICAL METAL FINISHERS
Address: 214 STARR STREET
City,State,Zip: BROOKLYN, NY
Program: HW
Site Code: 57764
Classification: C
Region: 2
Acres: Not reported
HW Code: 224008
Record Add: 11/18/1999
Record Upd: 03/23/2007
Updated By: dcwalsh
Site Description: "The Technical Metal Finishers Company was a plating company located in a light industrial/residential area. The company is out of business and the site is abandoned. The site was discovered in June 1982 when a fire occurred at the abandoned plant. The facility

TECHNICAL METAL FINISHERS (Continued) **1003864057**

	contained waste acids, caustics and cyanides stored in tanks and drums. The wastes contained in the tanks and drums were removed by a contractor hired by NYC Dept. of Environmental Protection. Clean up has been initiated by NYC Dept. of Environmental Protection through contract with Radiac Research Corporation. All tanks and debris have been removed from site and soil has been excavated. The building was demolished, and all work has been completed."
Env Problem:	"The site was delisted from the Registry as removal action conducted at the site has removed all hazardous waste."
Health Problem:	"NYSDOH has insufficient information to fully evaluate the potential for human exposures."
Dump:	False
Structure:	True
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	unknown
Disp Term:	unknown
Lat/Long:	40:42:22:0 / 73:55:22:0
Dell:	False
Record Add:	1999-11-18 12:00:00
Record Upd:	1999-11-18 12:00:00
Updated By:	INITIAL
Own Op:	3
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	AL ROZELL
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
Own Op:	1
Sub Type:	C01
Owner Name:	Not reported
Owner Company:	AL ROZELL
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
HW Code:	224008
Waste Type:	POSSIBLE CONTAMINATED FLOOR BOARDS
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224008
Waste Type:	AND SOIL AT SITE.
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	11
Cross Ref Type Code:	15
Cross Ref Type:	Congressional District
Record Added Date:	1999-11-18 12:00:00
Record Updated:	2005-02-24 15:54:00
Updated By:	INITIAL
Crossref ID:	NYD980780894
Cross Ref Type Code:	05
Cross Ref Type:	EPA Site ID
Record Added Date:	1999-11-18 12:00:00

TECHNICAL METAL FINISHERS (Continued) **1003864057**

Record Updated: 2001-05-10 16:31:00
Updated By: REGTRANS
Crossref ID: 020
Cross Ref Type Code: 13
Cross Ref Type: Senate District
Record Added Date: 1999-11-18 12:00:00
Record Updated: 2005-02-24 15:54:00
Updated By: INITIAL

257
NW
1/2-1
0.640 mi.
3377 ft.

FORMER KLINK COSMO CLEANERS **NY SHWS** **S109416412**
364 RICHARDSON STREET **N/A**
BROOKLYN, NY 11222

Relative:
Higher

Actual:
38 ft.

SHWS:
Name: FORMER KLINK COSMO CLEANERS
Address: 364 RICHARDSON STREET
City,State,Zip: BROOKLYN, NY 11222
Program: HW
Site Code: 405851
Classification: Significant threat to the public health or environment - action required.
Region: 2
Acres: 1.080
HW Code: 224130
Record Add: 10/28/2008
Record Upd: 07/26/2021
Updated By: HMDUDEK
Site Description: "Location The 1.08-acre site is located in the Greenpoint/East Williamsburg industrial section of Brooklyn, NY. The site is located on the southwest corner of the intersection of Vandervoort Avenue and Richardson Street. Please refer to Figures 1 2. Site Features The site is completely covered by a one-story brick building. Numerous other commercial and industrial properties are located to the north, south, and west of the site. The Greenpoint Little League fields and a National Grid energy facility are east of the site across Vandervoort Avenue. A small residential area is located 1-2 blocks north of the site. An eastbound on-ramp to the Brooklyn-Queens Expressway (I-278) is located 4 blocks to the north. Current Zoning and Land Use The site is zoned for (M1) manufacturing. Per NYC Planning, M1 districts typically include light industrial uses, such as woodworking shops, repair shops, and wholesale service and storage facilities. The site is currently used for sheet metal fabrication and offices. Past Use of the Site The Department began a Site Characterization in this area in2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, Site ID No. 224121). This property was identified as a potential source of contamination based on its past use. Klink Cosmo Cleaners operated as a commercial dry cleaner from the 1950's to the mid 1990's. During that time, hazardous waste (spent halogenated solvents) was generated under EPA ID no. NYD000824334. Site Geology and Hydrogeology The site is underlain by urban fill unit (0.5-8 feet thick), a sand unit (approximately 100 feet thick) with varying textural features, and the Raritan (clay) Formation approximately 110 feet below ground surface (bgs). Groundwater is present approximately 35 feet bgs and flows north to northeast toward Newtown Creek. "
Env Problem: "Soil and groundwater were analyzed for volatile organic compounds

FORMER KLINK COSMO CLEANERS (Continued) **S109416412**

(VOCs), semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), and pesticides. Based upon investigations conducted to date, the primary contaminants of concern include VOCs and metals. Nature and Extent of Contamination: Soil The VOC source area was identified in the northeast corner of the current building at depths from 1 - 35 feet below ground surface (bgs). Tetrachloroethylene (PCE) was detected in soils on-site at concentrations up to 273 parts per million or ppm, exceeding the soil cleanup objective (SCO) for commercial use (150 ppm) and for the protection of groundwater (1.3 ppm). Trichloroethene (TCE) was detected in two on-site samples which slightly exceed the protection of groundwater SCO (0.47 ppm). PCE contaminated soil exceeding the protection of groundwater SCO extends off-site approximately ten feet to the north and east below the adjacent sidewalks of Vandervoort Avenue and Richardson Street. Metals contamination associated with urban fill was detected in shallow soil on-site. For example, lead was detected up to 2,680 ppm (exceeding the commercial SCO of 1,000 ppm) and arsenic up to 38.7 ppm (exceeding the commercial SCO of 16 ppm). The data does not indicate any off-site metal impacts in soil related to this site. Groundwater Based on the investigations conducted to date, the primary contaminants of concern detected in groundwater include PCE and trichloroethene (TCE). PCE has been found in shallow groundwater at concentrations up to 46,000 parts per billion or ppb (exceeding the groundwater standard of 5 ppb). PCE has also been found in deep groundwater (atop the Raritan clay) up to 4,500 ppb. TCE, a daughter product of PCE, was detected up to 2,100 ppb (exceeding the groundwater standard of 5 ppb). The groundwater plume extends north and east from the site to at least Lombardy street where it becomes co-mingled with contamination originating from other sites. Soil Vapor PCE has been found in soil vapor beneath the site at concentrations up to 2,090,000 micrograms per cubic meter, or ug/m^3. TCE has been found at concentrations up to 7,380 ug/m^3. Soil vapor intrusion sampling has been completed at twenty off-site structures. Actions described in Section 6.2 were needed to address potential exposure at twelve structures. "

Health Problem: "Direct contact with contaminants in the soil is unlikely because the site is covered by a building. Contaminated groundwater at the site is not used for drinking or other purposes and the site is served by a public water supply that obtains water from a different source not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Sub?slab depressurization systems (SSDSs) have been installed in twelve off?site residential buildings to prevent the indoor air quality from being affected by the contamination in soil vapor in the area. SSDSs remain available to homeowners in the vicinity of the site who previously rejected the State s offer for a system. The on-site building does not have an SSDS; however, the potential for soil vapor intrusion is being addressed by the soil vapor extraction/air sparge system which is being constructed and will be operated on-site. "

Dump: False
Structure: True
Lagoon: False
Landfill: False

FORMER KLINK COSMO CLEANERS (Continued) **S109416412**

Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2008-10-28 12:21:00
Record Upd:	2016-03-02 09:54:00
Updated By:	DKHARRIN
Own Op:	Document Repository
Sub Type:	C01
Owner Name:	Not reported
Owner Company:	Brooklyn Community Board #1
Owner Address:	435 Graham Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222
Owner Country:	United States of America
Own Op:	4
Sub Type:	08
Owner Name:	Not reported
Owner Company:	AWL Industries
Owner Address:	364 Richardson Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222
Owner Country:	United States of America
Own Op:	1
Sub Type:	01
Owner Name:	PAVLOVICH & COMPANY
Owner Company:	PAVLOVICH & COMPANY
Owner Address:	460 MORGAN AVENUE
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11222-5706
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	C04
Owner Name:	David Camara
Owner Company:	Brooklyn Public Library - Leonard Branch
Owner Address:	81 Devoe Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Country:	United States of America
HW Code:	224130
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224130
Waste Type:	trichloroethene (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224130
Waste Type:	arsenic
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224130
Waste Type:	lead
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224130

FORMER KLINK COSMO CLEANERS (Continued) **S109416412**

Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	224121
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2009-08-26 16:51:00
Record Updated:	2009-08-26 16:51:00
Updated By:	dkharrin
Crossref ID:	224129
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2008-10-31 14:34:00
Record Updated:	2008-10-31 14:34:00
Updated By:	MOBARRIE
Crossref ID:	224131
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2008-10-31 14:41:00
Record Updated:	2008-10-31 14:41:00
Updated By:	MOBARRIE
Crossref ID:	224132
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2008-10-31 14:41:00
Record Updated:	2008-10-31 14:41:00
Updated By:	MOBARRIE

258
NW
1/2-1
0.738 mi.
3896 ft.

Relative:
Higher

Actual:
35 ft.

GOODMAN BROTHERS CO STEEL DRUM DIV **1000190383**
18 DIVISION PLACE **NY SHWS** **NYD047683776**
BROOKLYN, NY 11222 **NY UST**
NY CBS
NY AST
NY CBS AST
NY Spills
RAATS
ICIS
FINDS
ECHO
NY AIRS
NY MANIFEST
NJ MANIFEST

RCRA-VSQG:

Date Form Received by Agency:	20070101
Handler Name:	GOODMAN BROTHERS STEEL DRUM CO INC
Handler Address:	18 DIVISION PLACE
Handler City,State,Zip:	BROOKLYN, NY 11222
EPA ID:	NYD047683776
Contact Name:	SIMON GOODMAN
Contact Address:	DIVISION PL
Contact City,State,Zip:	BROOKLYN, NY 11222
Contact Telephone:	718-782-3056
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Not reported

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	DIVISION PL
Mailing City,State,Zip:	BROOKLYN, NY 11222
Owner Name:	GOODMAN BROS STEEL DRUM CO INC
Owner Type:	Private
Operator Name:	GOODMAN BROS STEEL DRUM CO INC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	F017
Waste Description:	Not Defined
Waste Code:	U220
Waste Description:	BENZENE, METHYL- (OR) TOLUENE
Waste Code:	U239
Waste Description:	BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOODMAN BROS STEEL DRUM CO INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOODMAN BROS STEEL DRUM CO INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: GOODMAN BROS STEEL DRUM CO INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20060101
Handler Name: GOODMAN BROTHERS STEEL DRUM CO INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: GOODMAN BROTHERS STEEL DRUM CO INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19800818
Handler Name: GOODMAN BROS STEEL DRUM CO INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940325
Handler Name: GOODMAN BROS STEEL DRUM CO INC
Federal Waste Generator Description: Large Quantity Generator

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960311
Handler Name: GOODMAN BROS. STEEL DRUM CO. INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19980228
Handler Name: GOODMAN BROTHERS STEEL DRUM CO INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010101
Handler Name: GOODMAN BROS STEEL DRUM CO INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20021121
Handler Name: GOODMAN BROTHERS STEEL DRUM CO INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 42184
NAICS Description: INDUSTRIAL SUPPLIES WHOLESALERS

NAICS Code: 81131
NAICS Description: COMMERCIAL AND INDUSTRIAL MACHINERY AND EQUIPMENT (EXCEPT AUTOMOTIVE AND ELECTRONIC) REPAIR AND MAINTENANCE

NAICS Code: 81149
NAICS Description: OTHER PERSONAL AND HOUSEHOLD GOODS REPAIR AND MAINTENANCE

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19820902
Actual Return to Compliance Date: 19831206
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19870603
Actual Return to Compliance Date:	19871215
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19871022
Enforcement Identifier:	003
Date of Enforcement Action:	19870922
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: NYDEC
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 6500
Paid Amount: 6500
Final Count: 1
Final Amount: 6500

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	19990129
Actual Return to Compliance Date:	19990401
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	19990401
Enforcement Identifier:	000
Date of Enforcement Action:	19990301
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R2
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R2AHJ
Enforcement Responsible Sub-Organization:	RCB
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20020103
Actual Return to Compliance Date:	20050126
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20030618
Enforcement Responsible Agency:	State
Enforcement Docket Number:	2-20020318-30
Enforcement Attorney:	SH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	20050126
Disposition Status:	DR
Disposition Status Description:	DROPPED
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	NYHHN
Enforcement Responsible Sub-Organization:	R2
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	17500
Paid Amount:	8750
Final Count:	1
Final Amount:	17500

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20020103
Actual Return to Compliance Date:	20050126
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20020321
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	SH
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	20050126
Disposition Status:	DR
Disposition Status Description:	DROPPED
Consent/Final Order Sequence Number:	Not reported

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: NYHHN
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19820902
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19831206
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19930816
Evaluation Responsible Agency: EPA
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R2LG2
Evaluation Responsible Sub-Organization: RCB
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19870603
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NYDEC
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19871215
Scheduled Compliance Date: 19871022
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Evaluation Date:	20050126
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	NYJRI
Evaluation Responsible Sub-Organization:	CO
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19981210
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R2AHJ
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	19990401
Scheduled Compliance Date:	19990401
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20020103
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R2AHJ
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20020315
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20020103
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYHHN

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20050126
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20020103
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	NYHHN
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20050126
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SHWS:

Name:	FORMER GOODMAN BROTHERS STEEL DRUM CO.
Address:	18 DIVISION PLACE
City,State,Zip:	BROOKLYN, NY 11222
Program:	HW
Site Code:	505634
Classification:	Significant threat to the public health or environment - action required.
Region:	2
Acres:	0.670
HW Code:	224211
Record Add:	03/18/2015
Record Upd:	08/10/2020
Updated By:	HMDUDEK
Site Description:	"Location: The 0.67 acre site is located in the Greenpoint/East Williamsburg Industrial Area section of Kings County (Borough of Brooklyn, New York City). The site is located on the south side of Division Place between Kingsland and Debevoise Avenues. Site Features: The site is mostly covered with one-story buildings, with a storage yard located on the south side along Richardson Street. Current Zoning and Land Use: The site is zoned for manufacturing. The site is currently used for storage and light manufacturing. Numerous commercial, industrial, and residential properties surround the site. Past Use of the Site: Goodman Brothers began operations in 1909 as a re-conditioner and recycler of used steel drums for re-use or disposal. The Department's initial involvement with the facility was a RCRA inspection conducted in September 1982, as the company was a large quantity generator of hazardous waste above a sole-source aquifer. The company went out of business in June 2002. During the last 20 years of its operation, Goodman Brothers entered into one consent order with the USEPA (1983), and two consent orders with the Department (1987 and 2003), and agreed to pay penalties in the overall amount of $28,000 for numerous violations. Site Geology and Hydrogeology: The site is underlain by a sand/silty sand unit (~15-35' thick), a discontinuous sand/gravel unit within the

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

sand/silty sand unit (~5' thick), a discontinuous clayey silt unit within the sand/silty sand unit (~5' thick), and a sand unit below. Groundwater is approximately 15-20' below grade in the immediate vicinity of the site. Groundwater below the site flows toward the east in the direction of Newtown Creek (~3,600' away)."

Env Problem:	"Nature and Extent of Contamination: - Groundwater The primary contaminants in groundwater are Volatile Organic Compounds or VOCs and Per/ polyfluoroalkyl substances (PFAS). For example, the chlorinated VOC, cis-1,2 dichloroethene (DCE) was detected up to 61,000 parts per billion or ppb, compared to groundwater standard of 5 ppb. The PFAS compound Perfluorooctanoic acid (PFOA) was detected up to 5,100 parts per trillion or ppt, compared to a groundwater standard of 10 ppt. - Soil The primary contaminants in soil are VOCs and Polychlorinated Biphenyls (PCBs). For example, the chlorinated VOC, tetrachloroethene (PCE) was detected up to 1,200 parts per million or ppm. This exceeds the commercial Soil Cleanup Objective (SCO) of 150 ppm. Total PCBs were detected up on 130 ppm, which exceeds the commercial SCO of 1 ppm. Soil Vapor: Numerous VOCs were detected in soil vapor. For example, DCE was detected up to 5,600,000 micrograms per cubic meter (ug/m3). Numerous Significant Threat: The site poses a significant environmental threat due to ongoing releases of PCE (and its breakdown products), BTEX compounds, and PCBs from source areas into soil groundwater and soil vapor."
Health Problem:	"Direct contact with contaminants in the soil is unlikely because the majority of the site is covered with buildings and pavement. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential for soil vapor intrusion in on-site and off-site structures exists and should be evaluated and may need to be evaluated for off-site structures. "
Dump:	False
Structure:	True
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2015-03-30 09:44:00
Record Upd:	2015-03-30 09:44:00
Updated By:	DKHARRIN
Own Op:	Document Repository
Sub Type:	C04
Owner Name:	David Camara
Owner Company:	Brooklyn Public Library - Leonard Branch
Owner Address:	81 Devoe Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Country:	United States of America
Own Op:	4
Sub Type:	E

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Owner Name:	Not reported
Owner Company:	Art Furniture Co.
Owner Address:	275 Richardson Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222-5641
Owner Country:	United States of America
Own Op:	1
Sub Type:	E
Owner Name:	Kris Rutkowski
Owner Company:	King Tower Properties, Inc.
Owner Address:	18 Division Place
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222
Owner Country:	United States of America
Own Op:	1
Sub Type:	E
Owner Name:	Hieronima Rutkowska
Owner Company:	Richland Properties, Inc.
Owner Address:	275 Richardson Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222-5641
Owner Country:	United States of America
HW Code:	224211
Waste Type:	1,1,1-trichloroethane
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224211
Waste Type:	toluene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224211
Waste Type:	lead
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224211
Waste Type:	xylene (mixed)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224211
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224211
Waste Type:	PCB aroclor 1260
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	NYD047683776
Cross Ref Type Code:	06
Cross Ref Type:	RCRA EPA ID No.
Record Added Date:	2015-03-30 09:45:00
Record Updated:	2015-03-30 09:45:00
Updated By:	DKHARRIN
Crossref ID:	NYD047699061
Cross Ref Type Code:	06
Cross Ref Type:	RCRA EPA ID No.
Record Added Date:	2015-08-25 14:25:00
Record Updated:	2015-08-25 14:25:00

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Updated By: RXSCHICK

UST:

Name:	GOODMAN BROS STEEL DRUM
Address:	18 DIVISION PLACE
City,State,Zip:	BROOKLYN, NY 11222
Id/Status:	2-017620 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	589559.19127
UTM Y:	4508238.80696
Site Type:	Other

Affiliation Records:

Site Id:	150
Affiliation Type:	Facility Owner
Company Name:	GOODMAN BROTHERS STEEL DRUM CO.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	18 DIVISION PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11222
Country Code:	001
Phone:	(718) 782-3056
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	150
Affiliation Type:	Mail Contact
Company Name:	GOODMAN BROTHERS STEEL DRUM CO.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	18 DIVISION PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11222
Country Code:	001
Phone:	(718) 782-3056
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	150
Affiliation Type:	Facility Operator
Company Name:	GOODMAN BROTHERS STEEL DRUM CO.
Contact Type:	Not reported
Contact Name:	IRVING GOODMAN
Address1:	Not reported
Address2:	Not reported

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 782-3056
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	150
Affiliation Type:	Emergency Contact
Company Name:	GOODMAN BROTHERS STEEL DRUM CO.
Contact Type:	Not reported
Contact Name:	MORTMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 494-7704
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank ID:	27072
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	500
Install Date:	01/01/1997
Date Tank Closed:	01/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number:	002
Tank ID:	27073
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	1100
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
L09 - Piping Leak Detection - Exempt Suction Piping
H00 - Tank Leak Detection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None

Tank Number:	003
Tank ID:	27074
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	1100
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

CBS:

Name:	GOODMAN BROTHERS STEEL DRUM
Address:	18 DIVISION PLACE
City,State,Zip:	BROOKLYN, NY 11222
CBS Number:	2-000008
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	589528.43560
UTMY:	4508245.39054

AST:

Name:	GOODMAN BROTHERS STEEL DRUM
Address:	18 DIVISION PLACE
City,State,Zip:	BROOKLYN, NY 11222
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-000008
Program Type:	CBS
UTM X:	589528.43560
UTM Y:	4508245.39054
Expiration Date:	N/A
Site Type:	Manufacturing (Other than Chemical)/Processing

Tank Info:

Tank Number:	00001
Tank Id:	182699
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Fiberglass Reinforced Plastic
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	02/01/2000
Register:	True
Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Tank Number:	00001-A
Tank Id:	194176
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Plastic
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	02/01/2000
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	05/18/2012
Register:	True
Modified By:	LXZIELIN
Last Modified:	05/18/2012
Material Name:	Not reported

CBS AST:

CBS Number:	2-000008
ICS Number:	2-125161
PBS Number:	Not reported
MOSF Number:	Not reported
SPDES Number:	Not reported
Facility Status:	IN SERVICE
Facility Type:	I
Telephone:	(718) 782-3038
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	02/03/2003
Total Capacity of All Active Tanks(gal):	3000
Operator:	RAY KRUZINSKI/FRANK CATALDI
Emergency Contact:	IRVING GOODMAN
Emergency Phone:	(212) 737-7181
Owner Name:	GOODMAN BROTHERS STEEL DRUM CO.
Owner Address:	18 DIVISION PL.
Owner City,St,Zip:	BROOKLYN, NY 11222
Owner Telephone:	(718) 782-3056
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	GOODMAN BROTHERS STEEL DRUM CO.
Mail Contact Addr:	18 DIVISION PL.
Mail Contact Addr2:	Not reported
Mail Contact Contact:	IRVING GOODMAN
Mail Contact City,St,Zip:	BROOKLYN, NY 11222
Mail Phone:	(718) 782-3056

Tank Id:	00001-A
CAS Number:	7647010
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	02/00
Tank Closed:	Not reported
Capacity (Gal):	3000
Chemical:	Hydrochloric acid
Tank Location:	Indoors, Belowground
Tank Type:	Fiberglass reinforced plastic [FRP]

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Total Tanks:	1
Tank Secret:	False
Tank Secondary Containment:	Cut-off Walls
Tank Error Status:	No Missing Data
Date Entered:	01/16/2001
Certified Date:	01/17/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	Other
External Protection:	Other
Pipe Location:	Aboveground
Pipe Type:	Double Walled Fiberglass
Pipe Internal:	Other
Pipe External:	Other
Pipe Flag:	Other
Leak Detection:	Interstitial Monitoring
Overfill Protection:	Product Level Gauge
Haz Percent:	31
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	11/02/92
Is It There:	False
Delinquent:	False
Date Expired:	02/03/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	11/07/2000

Tank Id:	00001
CAS Number:	7647010
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	00/00
Tank Closed:	02/00
Capacity (Gal):	5000
Chemical:	Hydrochloric acid
Tank Location:	Indoors, Belowground
Tank Type:	Fiberglass coated steel
Total Tanks:	1
Tank Secret:	False
Tank Secondary Containment:	Cut-off Walls
Tank Error Status:	No Missing Data
Date Entered:	02/03/1989
Certified Date:	01/17/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	Fiberglass Liner (FRP
External Protection:	Fiberglass
Pipe Location:	Aboveground
Pipe Type:	Double Walled Fiberglass
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Leak Detection:	None
Overfill Protection:	Catch Basin
Haz Percent:	31
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	11/02/92
Is It There:	False
Delinquent:	False
Date Expired:	02/03/95
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	11/07/2000

SPILLS:

Name:	GOODMAN BROT STEEL DRUMS
Address:	18 DIVISION ST
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0109317 / 2003-02-13
Facility ID:	0109317
Facility Type:	ER
DER Facility ID:	161369
Site ID:	193547
DEC Region:	2
Spill Cause:	Other
Spill Class:	C4
SWIS:	2401
Spill Date:	2001-12-20
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2001-12-20
CID:	199
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-12-20
Spill Record Last Update:	2003-02-13
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	CRAIG GOODMAN
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND ADMINISTRATIVE CLOSURE - AUSTIN"
Remarks:	"WHILE DOING MAINTAINCE ON A PUMP APPROX 1 QT OF WASTE WATER LEAKED OUT - ALL MATERAL CLEANED UP"

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

All Materials:

Site ID:	193547
Operable Unit ID:	846668
Operable Unit:	01
Material ID:	530525
Material Code:	0060A
Material Name:	wastewater
Case No.:	Not reported
Material FA:	Other
Quantity:	1.00
Units:	G
Recovered:	1.00
Oxygenate:	Not reported

Name:	GOODMAN BROT STEEL DRUMS
Address:	18 DIVISION PL
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0109316 / 2003-07-07
Facility ID:	0109316
Facility Type:	ER
DER Facility ID:	242844
Site ID:	300204
DEC Region:	2
Spill Cause:	Other
Spill Class:	C4
SWIS:	2401
Spill Date:	2001-12-20
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2001-12-20
CID:	199
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-12-20
Spill Record Last Update:	2003-07-07
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	CRAIG GOODMAN
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND "
Remarks:	"WHILE DOING ROUTINE MAINTAINCE ON COMPRESSOR 2-3 GAL OF MOTOR OIL SPILLED FROM MACHINERY"

All Materials:

Site ID:	300204
Operable Unit ID:	847677
Operable Unit:	01

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Material ID:	530524
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	3.00
Units:	G
Recovered:	3.00
Oxygenate:	Not reported

RAATS:

Entry No:	1
Facility ID:	NYD047683776
Type:	Not reported
Docket No:	83-0211
Region:	02
Issue Date:	06/24/1983
Final Date:	01/31/1983
Status:	Consent Agreement/Final Order
Additional:	Not reported
Action ID:	2021
Action:	3008 (A)
Violation No:	Not reported
Viol No Cited:	1 122.22
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	5,000.00
Final Penalty:	4,000.00
Total Prop. Penalty:	7,500.00
Comments:	Not reported

Entry No:	1
Facility ID:	NYD047683776
Type:	Not reported
Docket No:	83-0211
Region:	02
Issue Date:	06/24/1983
Final Date:	01/31/1983
Status:	Consent Agreement/Final Order
Additional:	Not reported
Action ID:	2021
Action:	3008 (A)
Violation No:	Not reported
Viol No Cited:	2 265.31
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	1,500.00
Final Penalty:	4,000.00
Total Prop. Penalty:	7,500.00
Comments:	Not reported

Entry No:	1
Facility ID:	NYD047683776
Type:	Not reported
Docket No:	83-0211
Region:	02

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Issue Date: 06/24/1983
Final Date: 01/31/1983
Status: Consent Agreement/Final Order
Additional: Not reported
Action ID: 2021
Action: 3008 (A)
Violation No: Not reported
Viol No Cited: 3 265.173(A)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: 1,000.00
Final Penalty: 4,000.00
Total Prop. Penalty: 7,500.00
Comments: Not reported

ICIS:
Enforcement Action ID: NY000A0000261010015000328
FRS ID: 110000892017
Action Name: Not reported
Facility Name: GOODMAN BROS STEEL DRUM CO-18DIVISIONPL
Facility Address: 18 DIVISION PL
BROOKLYN, NY 11222
Enforcement Action Type: Administrative Order
Facility County: KINGS
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3412
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 40.720775
Longitude in Decimal Degrees: 73.9414628
Permit Type Desc: Not reported
Program System Acronym: NY0000002610100150
Facility NAICS Code: 332439
Tribal Land Code: Not reported

Enforcement Action ID: NY000A0000261010015000321
FRS ID: 110000892017
Action Name: Not reported
Facility Name: GOODMAN BROS STEEL DRUM CO-18DIVISIONPL
Facility Address: 18 DIVISION PL
BROOKLYN, NY 11222
Enforcement Action Type: Notice of Violation
Facility County: KINGS
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3412
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 40.720775
Longitude in Decimal Degrees: 73.9414628
Permit Type Desc: Not reported
Program System Acronym: NY0000002610100150
Facility NAICS Code: 332439
Tribal Land Code: Not reported

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

FINDS:
Registry ID: 110000892017

Click Here:

Environmental Interest/Information System:
AIR EMISSIONS CLASSIFICATION UNKNOWN
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000190383
Registry ID:	110000892017
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110000892017
Name:	GOODMAN BROS STEEL DRUM CO-18DIVISIONPL
Address:	18 DIVISION PLACE
City,State,Zip:	BROOKLYN, NY 11222

AIRS:

Name:	GOODMAN BROS STEEL DRUM CO-18DIVISIONPL
Address:	18 DIVISION PL
City,State,Zip:	BROOKLYN, NY 11222
DECID:	2610100150
Process ID:	Not reported
Latitude:	40.720775234
Longitude:	73.941462833
FIPS Code:	Not reported
Auth Type Code:	ATV
Permit Status:	Expired
Auth Status Code:	Not reported
Emissions:	Not reported
Issue date:	07/30/2002
Expired Date:	Not reported
Emission Unit date:	Not reported
Contamination:	Not reported
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	Not reported
Permit Status:	Expired
Auth Status Code:	Not reported

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Emissions:	Not reported
Issue date:	01/12/2000
Expired Date:	07/30/2002
Emission Unit date:	Not reported
Contamination:	Not reported
EPA Control Code:	Not reported
Control Eff:	Not reported
Unit:	Not reported

NY MANIFEST:

Name:	FORMER GOODMAN BROS STEEL DRUM CO
Address:	18 DIVISION PLACE
City,State,Zip:	BROOKLYN, NY 11222
Country:	USA
EPA ID:	NYD047683776
Facility Status:	Not reported
Location Address 1:	18 DIVISION PLACE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11222
Location Zip 4:	5699

NY MANIFEST:

EPAID:	NYD047683776
Mailing Name:	FORMER GOODMAN BROS STEEL DRUM CO
Mailing Contact:	MICHAEL HAGGERTY
Mailing Address 1:	625 BROADWAY
Mailing Address 2:	Not reported
Mailing City:	ALBANY
Mailing State:	NY
Mailing Zip:	12233
Mailing Zip 4:	7016
Mailing Country:	USA
Mailing Phone:	5184029688

NJ MANIFEST:

EPA Id:	NYD047683776
Mail Address:	Not reported
Mail City/State/Zip:	Not reported
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	Not reported
Comments:	Not reported
SIC Code:	Not reported
County:	00
Municipal:	00
Previous EPA Id:	Not reported
Gen Flag:	X
Trans Flag:	X
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

GOODMAN BROTHERS CO STEEL DRUM DIV (Continued) **1000190383**

Manifest:

Manifest Number:	NJA5031614
EPA ID:	NYD047683776
Date Shipped:	01/27/2004
TSDF EPA ID:	NJD002454544
Transporter EPA ID:	NYD064748304
Transporter 2 EPA ID:	NJD002454544
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	01/27/2004
Date Trans2 Transported Waste:	01/30/2004
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	01/30/2004
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	03090422
Was Load Rejected:	No
Reason Load Was Rejected:	Not reported

259
NNW
1/2-1
0.756 mi.
3994 ft.

FORMER LOMBARDY STREET LACQUER AND SOAP MFG.
171 LOMBARDY STREET
BROOKLYN, NY 11222

NY SHWS **S102637940**
NY CBS **N/A**
NY AST
NY CBS AST
NY MANIFEST

Relative:
Higher

Actual:
53 ft.

SHWS:

Name:	FORMER LOMBARDY STREET LACQUER AND SOAP MFG.
Address:	171 LOMBARDY STREET
City,State,Zip:	BROOKLYN, NY 11222
Program:	HW
Site Code:	486951
Classification:	Significant threat to the public health or environment - action

FORMER LOMBARDY STREET LACQUER AND SOAP MFG. (Continued) **S102637940**

required.
Region: 2
Acres: 0.460
HW Code: 224182
Record Add: 09/17/2013
Record Upd: 08/10/2020
Updated By: HMDUDEK
Site Description: "Location: The approximately 1/2 acre site is located in the Greenpoint/East Williamsburg Industrial Area section of Kings County (Borough of Brooklyn, New York City). The site is located on the northeast corner of the intersection of Lombardy Street and Varick Avenue. Site Features: The site is completely covered by two (2) masonry block buildings. Current Zoning and Land Use(s): The site is zoned for manufacturing. The site is currently utilized as a warehouse. Numerous commercial and industrial properties are located to the north, east, and west of the site. A National Grid energy facility is located south of the site across Lombardy Street. The Brooklyn-Queens Expressway (I-278) is located 1 block north of the site. A residential area is located 2 blocks southwest of the site. Newtown Creek is located 4 blocks east of the site. Past Use(s) of the Site: The Department began a Site Characterization in this area during the Summer of 2011 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID No. 224121). This particular area was specifically targeted for investigation based on its previous use as a lacquer storage facility in the 1930s, as a soap manufacturer from the early 1950s to 1989, and on data collected by the Department during investigations conducted at an adjacent site between 2007-2009 (ACME Steel - Brass Foundry) which indicated the presence of an additional source area along Varick Avenue between Anthony and Lombardy Streets. Site Geology and Hydrogeology: The site is underlain by a sand unit (~110' thick) with a discontinuous clayey silt/silty sand unit within the sand unit, and the Raritan formation. Groundwater is present at a depth of approximately 45-50' below ground surface in the vicinity of the site. Groundwater flows north towards Newtown Creek, which lies approximately 1,600' northeast of the site."
Env Problem: "Nature and Extent of Contamination: - Groundwater The primary contaminant of concern at the site is tetrachloroethene (PCE). PCE has been found in shallow groundwater at concentrations up to 8,400 ppb, and in deep groundwater up to 20,000 ppb, well above the Part 703.5 class GA standard of 5 ppb. - Soil PCE has been found in soil up to 23,000 ppm @ 1-1.5' below grade adjacent to a site-related cesspool, which is well above the soil cleanup objective for unrestricted use (1.3 ppm). Significant Threat: The site poses a significant environmental threat due to the ongoing release of PCE from source areas into soil and groundwater and a significant threat to public health due to the concentrations of PCE detected in groundwater and soil, in conjunction with the proximity of occupied structures."
Health Problem: "Direct contact with contaminants in the soil is unlikely because the site is covered with buildings and pavement. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the

FORMER LOMBARDY STREET LACQUER AND SOAP MFG. (Continued) **S102637940**

indoor air of buildings, is referred to as soil vapor intrusion. The potential for soil vapor intrusion to occur in on-site structures should be evaluated. In addition, off-site sampling indicates soil vapor intrusion is a concern for off-site buildings."

Dump: False
Structure: True
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2013-09-18 11:54:00
Record Upd: 2013-09-18 11:54:00
Updated By: DKHARRIN
Own Op: Document Repository
Sub Type: C05
Owner Name: Not reported
Owner Company: Brooklyn Community Board #1
Owner Address: 435 Graham Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11222
Owner Country: United States of America
Own Op: 1
Sub Type: 01
Owner Name: Not reported
Owner Company: 20 Rewe Street Ltd.
Owner Address: 885 Conklin Street
Owner Addr2: Not reported
Owner City,St,Zip: Farmingdale, NY 11735-2400
Owner Country: United States of America
Own Op: Document Repository
Sub Type: C04
Owner Name: David Camara
Owner Company: Brooklyn Public Library - Leonard Branch
Owner Address: 81 Devoe Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11211
Owner Country: United States of America
HW Code: 224182
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 224182
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

CBS:
Name: CHLORAL GROUP

FORMER LOMBARDY STREET LACQUER AND SOAP MFG. (Continued) **S102637940**

Address:	171 LOMBARDY ST
City,State,Zip:	BROOKLYN, NY 11222
CBS Number:	2-000036
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	590050.93977
UTMY:	4508620.25158

AST:

Name:	CHLORAL GROUP
Address:	171 LOMBARDY ST
City,State,Zip:	BROOKLYN, NY 11222
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-000036
Program Type:	CBS
UTM X:	590050.93977
UTM Y:	4508620.25158
Expiration Date:	N/A
Site Type:	Unknown

Tank Info:

Tank Number:	00001
Tank Id:	183321
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Plastic
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	06/01/1988
Capacity Gallons:	400
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

Tank Number:	00002
Tank Id:	183322
Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Plastic
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	06/01/1988
Capacity Gallons:	400
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported

FORMER LOMBARDY STREET LACQUER AND SOAP MFG. (Continued) **S102637940**

Date Tank Closed:	Not reported
Register:	True
Modified By:	CBSInit
Last Modified:	03/21/2005
Material Name:	Not reported

CBS AST:

CBS Number:	2-000036
ICS Number:	2-125127
PBS Number:	Not reported
MOSF Number:	Not reported
SPDES Number:	Not reported
Facility Status:	TEMPORARILY OUT-OF-SERVICE
Facility Type:	Not reported
Telephone:	(718) 388-2056
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	04/28/1991
Total Capacity of All Active Tanks(gal):	0
Operator:	KENNETH GOLDSTEIN
Emergency Contact:	FRANK TERRANOUA
Emergency Phone:	(516) 358-9276
Owner Name:	CHLORAL CHEMICAL CORP.
Owner Address:	171 LOMBARDY ST.
Owner City,St,Zip:	BROOKLYN, NY 11222
Owner Telephone:	(718) 388-2056
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	CHLORAL CHEMICAL CORP.
Mail Contact Addr:	171 LOMBARDY ST.
Mail Contact Addr2:	Not reported
Mail Contact Contact:	FRANK TERRANOUA
Mail Contact City,St,Zip:	BROOKLYN, NY 11222
Mail Phone:	(718) 388-2056

Tank Id:	00002
CAS Number:	7782505
Federal ID:	Not reported
Tank Status:	Not reported
Install Date:	06/88
Tank Closed:	00/00
Capacity (Gal):	400
Chemical:	Chlorine
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	Other
Tank Error Status:	2
Date Entered:	04/28/1989
Certified Date:	04/28/1989
Substance:	Not reported
Internal Protection:	Not reported
External Protection:	Not reported
Pipe Location:	Not reported
Pipe Type:	Unknown
Pipe Internal:	Not reported

FORMER LOMBARDY STREET LACQUER AND SOAP MFG. (Continued) **S102637940**

Pipe External:	Not reported
Pipe Flag:	False
Leak Detection:	Not reported
Overfill Protection:	Not reported
Haz Percent:	0
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	02/12/91
Is It There:	False
Delinquent:	False
Date Expired:	04/28/91
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	02/12/1991

Tank Id:	00001
CAS Number:	7782505
Federal ID:	Not reported
Tank Status:	Not reported
Install Date:	06/88
Tank Closed:	00/00
Capacity (Gal):	400
Chemical:	Chlorine
Tank Location:	Indoors, Aboveground
Tank Type:	Fiberglass reinforced plastic [FRP]
Total Tanks:	0
Tank Secret:	False
Tank Secondary Containment:	Other
Tank Error Status:	2
Date Entered:	04/28/1989
Certified Date:	04/28/1989
Substance:	Not reported
Internal Protection:	Not reported
External Protection:	Not reported
Pipe Location:	Not reported
Pipe Type:	Unknown
Pipe Internal:	Not reported
Pipe External:	Not reported
Pipe Flag:	False
Leak Detection:	Not reported
Overfill Protection:	Not reported
Haz Percent:	0
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	02/12/91
Is It There:	False
Delinquent:	False
Date Expired:	04/28/91

FORMER LOMBARDY STREET LACQUER AND SOAP MFG. (Continued) **S102637940**

Owner Mark: 1
Certificate Needs to be Printed: False
Fiscal Amt for Registration Fee Correct: True
Renewal Has Been Printed for Facility: True
Pre-Printed Renewal App Last Printed: 02/12/1991

NY MANIFEST:
Name: LOMBARDY STREET SOAP & LACQUER MANUFACTURING
Address: 171 LOMBARDY ST
City,State,Zip: BROOKLYN, NY 11222
Country: USA
EPA ID: NYR000220129
Facility Status: Not reported
Location Address 1: 171 LOMBARDY ST
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip: 11222
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYR000220129
Mailing Name: LOMBARDY STREET SOAP & LACQUER MANUFACTURING
Mailing Contact: LOMBARDY STREET SOAP & LACQUER MANUFACTURING
Mailing Address 1: 171 LOMBARDY ST
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11222
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2018
Trans1 State ID: NYR000191726
Trans2 State ID: PAD982661381
Generator Ship Date: 11/03/2017
Trans1 Recv Date: 11/03/2017
Trans2 Recv Date: 11/06/2017
TSD Site Recv Date: 11/13/2017
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000220129
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: RID040098352
TSDF ID 2: Not reported
Manifest Tracking Number: 009987450FLE
Import Indicator: N
Export Indicator: N
Discr Quantity Indicator: N

FORMER LOMBARDY STREET LACQUER AND SOAP MFG. (Continued) **S102637940**

Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Waste Code:	F002
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

260
NW
1/2-1
0.775 mi.
4091 ft.

95 LOMBARDY ST./ACME ARCH. PRODS., INC. **NY SHWS U003652054**
95 LOMBARDY ST **NY UST N/A**
BROOKLYN, NY 11222

Relative:
Higher

Actual:
45 ft.

SHWS:

Name:	ACME STEEL/METAL WORKS
Address:	95 LOMBARDY STREET
City,State,Zip:	BROOKLYN, NY 11222
Program:	HW
Site Code:	405853
Classification:	Significant threat to the public health or environment - action required.
Region:	2
Acres:	1.010
HW Code:	224131
Record Add:	10/28/2008
Record Upd:	03/25/2021
Updated By:	HMDUDEK
Site Description:	"Location: The 1.01 acre site is located in the Greenpoint/East Williamsburg Industrial Area section of Kings County (Borough of Brooklyn, New York City). The site is located on the east side of Vandervoort Avenue between Anthony and Lombardy Streets. Site Features: The site is completely covered by one (1) two-story and three (3) one-story brick buildings. The site is surrounded by other commercial and industrial properties. Sergeant William Dougherty Playground is located immediately north of the site across Anthony Street, and the eastbound on-ramp to the Brooklyn-Queens Expressway (I-278) is located one block to the north. A small residential area

95 LOMBARDY ST./ACME ARCH. PRODS., INC. (Continued) **U003652054**

is located one block south of the site. Current Zoning/Use(s): The site is zoned for manufacturing. The site is currently used as a granite warehouse and showroom at 95 Lombardy Street, and a paper distribution office and a kitchen cabinet warehouse/showroom at 46 Anthony Street. Historical Use(s): The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID No. 224121). This particular location was specifically targeted for investigation based on Sanborn fire insurance map data indicating that the site was utilized as a metal fabricator and painting facility from the 1930's to the late 2000's, and a Department database which lists the site as a generator of F001 waste (spent halogenated solvents used in de-greasing). Site Geology and Hydrogeology: The site is underlain by a fill unit (0.5-9' thick), a sand/silty sand unit (~100' thick), a discontinuous clay/silt unit (~1-10' thick) within the sand/silty sand unit at various depths within the site area, a sand and gravel unit (~5' thick), and the Raritan Formation (~120-125' below ground surface). Groundwater is approximately 35-45' below ground surface in the vicinity of the site. Groundwater flows northeast toward Newtown Creek, which lies approximately 2,500' northeast of the site."

Env Problem: "Nature and Extent of Contamination: - Groundwater The primary contaminant of concern at the site is trichloroethene (TCE). TCE has been found on-site in shallow groundwater at concentrations up to 66,000 ppb, and in deep groundwater at concentrations up to 70,000 parts per billion or ppb, exceeding Part 703.5 class GA standards (5 ppb). Concentrations of tetrachloroethene (up to 8,000 ppb) and 1,2-dichloroethene (3,200 ppb) have also been found above their respective Part 703.5 class GA standards (5 ppb each). - Soil TCE was detected in soil at 2.3 parts per million or ppm in one sample (exceeding the unrestricted Soil Cleanup Objective). - Soil Vapor and Indoor Air Concentrations of PCE in soil vapor have been found up to 3,100 ug/m^3. Concentrations of TCE in soil vapor have been found up to 4,500 ug/m^3, and in indoor air up to 13 ug/m^3. Significant Threat: The site poses a significant environmental threat due to ongoing releases of TCE from source areas into soil and groundwater."

Health Problem: "Exposure to site-related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site-related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available. "

Dump: False
Structure: True
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 2008-10-28 12:21:00
Record Upd: 2013-09-20 14:01:00
Updated By: ldennist
Own Op: Document Repository
Sub Type: C01
Owner Name: Not reported

95 LOMBARDY ST./ACME ARCH. PRODS., INC. (Continued) **U003652054**

Owner Company:	Brooklyn Community Board #1
Owner Address:	435 Graham Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222
Owner Country:	United States of America
Own Op:	4
Sub Type:	01
Owner Name:	PAUL BURDYN
Owner Company:	ACME ARCHITECTURAL PRODUCTS, INC.
Owner Address:	251 LOMBARDY STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11222
Owner Country:	United States of America
Own Op:	1
Sub Type:	01
Owner Name:	MAUREEN BABIS
Owner Company:	NYC IDA
Owner Address:	110 WILLIAM STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10038
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	C04
Owner Name:	David Camara
Owner Company:	Brooklyn Public Library - Leonard Branch
Owner Address:	81 Devoe Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Country:	United States of America
HW Code:	224131
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	224130
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2008-10-31 14:41:00
Record Updated:	2008-10-31 14:41:00
Updated By:	MOBARRIE
Crossref ID:	224132
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2008-10-31 14:42:00
Record Updated:	2008-10-31 14:42:00
Updated By:	MOBARRIE
Crossref ID:	224121
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2009-01-30 12:36:00
Record Updated:	2009-01-30 12:36:00
Updated By:	JAAVERSA
Crossref ID:	224129
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2008-10-31 14:34:00
Record Updated:	2008-10-31 14:34:00
Updated By:	MOBARRIE

95 LOMBARDY ST./ACME ARCH. PRODS., INC. (Continued) **U003652054**

UST:

Name:	95 LOMBARDY ST./ACME ARCH. PRODS., INC.
Address:	95 LOMBARDY ST
City,State,Zip:	BROOKLYN, NY 11222
Id/Status:	2-603942 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	589779.31460
UTM Y:	4508524.42989
Site Type:	Manufacturing (Other than Chemical)/Processing

Affiliation Records:

Site Id:	25835
Affiliation Type:	Facility Owner
Company Name:	WHITEHEAD COMPANY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	513 PORTER AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11222
Country Code:	001
Phone:	(718) 384-7800
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	25835
Affiliation Type:	Mail Contact
Company Name:	ACME ARCHITECTURAL PRODUCTS, INC.
Contact Type:	Not reported
Contact Name:	MILDRED OLSEN
Address1:	513 PORTER AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11222
Country Code:	001
Phone:	(718) 384-7800
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	25835
Affiliation Type:	Facility Operator
Company Name:	95 LOMBARDY ST./ACME ARCH. PRODS., INC.
Contact Type:	Not reported
Contact Name:	ACME ARCH PRODS., INC.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

95 LOMBARDY ST./ACME ARCH. PRODS., INC. (Continued) **U003652054**

Zip Code:	Not reported
Country Code:	001
Phone:	(718) 384-7800
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	25835
Affiliation Type:	Emergency Contact
Company Name:	WHITEHEAD COMPANY
Contact Type:	Not reported
Contact Name:	WILLIAM MCDONNELL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 384-7800
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	1
Tank ID:	56116
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	8500
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

I05 - Overfill - Vent Whistle
C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G08 - Tank Secondary Containment - Flexible Internal Lining (Bladder)
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

95 LOMBARDY ST./ACME ARCH. PRODS., INC. (Continued) **U003652054**

Tank Number:	2
Tank ID:	56117
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	1080
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

I05 - Overfill - Vent Whistle
C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G08 - Tank Secondary Containment - Flexible Internal Lining (Bladder)
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

AT261 **FORMER ACME STEEL PARTITION CO.** **NY SHWS** **S118950564**
NNW **513 PORTER AVENUE** **N/A**
1/2-1 **BROOKLYN, NY 11222**
0.826 mi.
4361 ft. **Site 1 of 2 in cluster AT**

Relative:
Higher

Actual:
50 ft.

SHWS:

Name:	FORMER ACME STEEL PARTITION CO.
Address:	513 PORTER AVENUE
City,State,Zip:	BROOKLYN, NY 11222
Program:	HW
Site Code:	494893
Classification:	P
Region:	2
Acres:	Not reported
HW Code:	224192
Record Add:	05/14/2014
Record Upd:	03/03/2020
Updated By:	JHOCONNE

Site Description: "Location: The site is located at 513 Porter Avenue in the Greenpoint section of the Borough of Brooklyn. It is bounded by Cherry Street to the north, Porter Avenue to the east, and Anthony Street to the south. Site Features: The site was once occupied by 5 contiguous, 1-story masonry construction buildings with an area of 39,000 sq. ft. (181.95 ft. x 200 ft.) constructed in 1950 (now demolished). Sergeant William Dougherty Playground was located immediately west of the site (now partially demolished and closed). The eastbound on-ramp to the

FORMER ACME STEEL PARTITION CO. (Continued) **S118950564**

Brooklyn-Queens Expressway (I-278) is located immediately north of the site. A small residential area is located two block south of the site. Current Zoning and Land Use: The site is located in a manufacturing area. The site was used as a staging area for equipment and materials as part of the Kosciuszko Bridge replacement project. Past Use of the Site: The site was operated by the ACME Steel Partition Company until 2007 when operations at the property ceased. The property was acquired via eminent domain by the NYSDOT as part of the Kosciuszko Bridge replacement project. Site Geology and Hydrogeology: The site is underlain by a fill unit (0.5-9' thick), a sand/silty sand unit (~100' thick), a discontinuous clay/silt unit (~1-10' thick) within the sand/silty sand unit at various depths within the site area, a sand and gravel unit (~5' thick), and the Raritan Formation (~120-125' below ground surface). Groundwater is approximately 35-45' below ground surface in the vicinity of the site. Groundwater flows northeast toward Newtown Creek, which lies approximately 2,500' northeast of the site."

Env Problem:	"Nature and Extent of Contamination: Soil - PCE has been found in on-site soils at concentrations up to 2.2 ppm, which is slightly above the soil cleanup objective for unrestricted use (1.3 ppm). Lead had been found up to 6,400 ppm, which is well above the soil cleanup objective for restricted residential use (400 ppm). Lead-hazardous soils were also identified on-site. Groundwater - The primary contaminants of concern at the site are tetrachloroethene (PCE), trichloroethene (TCE), and lead. PCE (up to 70 parts per billion, or ppb), TCE (up to 80 ppb), and lead (up to 254 ppb) have been found at concentrations slightly above their Part 703.5 class GA standards of 5, 5, and 25 ppb respectively. Soil Vapor - PCE has been found in soil vapor at concentrations up to 11,000 micrograms per cubic meter (ug/m3). TCE has been found at concentrations up to 106 ug/m3. "
Health Problem:	"As information for this site becomes available, it will be reviewed by the NYSDOH to determine if site contamination presents public health exposure concerns."
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	1
Sub Type:	B99
Owner Name:	Robert Adams
Owner Company:	NYS Dept of Transportation
Owner Address:	1 Hunters Point Plaza
Owner Addr2:	47-40 21st Street; Real Estate Rm 317
Owner City,St,Zip:	Long Island City, NY 11101
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported

FORMER ACME STEEL PARTITION CO. (Continued) **S118950564**

Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

AT262 **ACME STEEL/BRASS FOUNDRY** **NY SHWS** **S118950559**
NNW **72 ANTHONY STREET** **N/A**
1/2-1 **BROOKLYN, NY 11222**
0.826 mi.
4361 ft. **Site 2 of 2 in cluster AT**

Relative:
Higher

Actual:
50 ft.

SHWS:
Name: ACME STEEL/BRASS FOUNDRY
Address: 72 ANTHONY STREET
City,State,Zip: BROOKLYN, NY 11222
Program: HW
Site Code: 405855
Classification: Significant threat to the public health or environment - action required.
Region: 2
Acres: 1.210
HW Code: 224132
Record Add: 10/28/2008
Record Upd: 10/28/2020
Updated By: HMDUDEK
Site Description: "Location: The 1.21 acre site is located in the Greenpoint/East Williamsburg Industrial Area section of Kings County (Borough of Brooklyn, New York City). The site is located on the east side of Porter Avenue between Anthony and Lombardy Streets. Site Features: The site consists of one 1-story brick building, three 1-story metal sheds, two truck parking areas and a bus parking lot. The site is surrounded by other commercial and industrial properties. A large National Grid energy facility is located one block south of the site across Lombardy Street. Sergeant William Dougherty Playground is located one block northwest of the site across Anthony Street, and the elevated Brooklyn-Queens Expressway (I-278) is located one block to the north. A small residential area is located one block southwest of the site. Current Zoning/Use(s): The site is zoned for manufacturing. The site is currently used as a marble and granite distribution warehouse and and a City-Wide truck maintenance shop at 498 Porter Avenue. Historical Use(s): The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID No. 224121). This particular location was specifically targeted for investigation based on Sanborn fire insurance map data indicating that the site was utilized as a brass foundry from the 1960's to 1993, and a Department database which lists the site as a generator of F001 waste (spent halogenated solvents used in de-greasing). This investigation was conducted in several phases, and was completed in the Summer of 2009. Site Geology and Hydrogeology: The site is underlain by a fill unit (0.5-9' thick), a sand/silty sand unit (~110' thick), a discontinuous clay/silt unit (~1-10' thick) within the sand/silty sand unit at various depths within the site area, a sand and gravel unit (~5' thick), and the Raritan Formation (~130-135' below ground surface). Groundwater is approximately 45-55' below ground surface in the vicinity of the

ACME STEEL/BRASS FOUNDRY (Continued) **S118950559**

	site. Groundwater flows northeast toward Newtown Creek, which lies approximately 2,000' northeast of the site."
Env Problem:	"Nature and Extent of Contamination: - Groundwater The primary contaminant of concern at the site is tetrachloroethene (PCE). PCE has been detected up to 1,800 parts per billion or ppb (compared to a groundwater standard of 5 ppb). - Soil PCE has been found in on-site soils at concentrations up to 220 parts per million or ppm (compared to a commercial use soil cleanup objective of 150 ppm). - Soil Vapor Concentrations of PCE have been found up to 19,000 ug/m^3. Concentrations of TCE have been found up to 1,300 ug/m^3. "
Health Problem:	"Exposure to site-related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site-related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available. "
Dump:	False
Structure:	True
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	2008-10-28 10:35:00
Record Upd:	2015-02-27 08:53:00
Updated By:	DKHARRIN
Own Op:	Document Repository
Sub Type:	C01
Owner Name:	Not reported
Owner Company:	Brooklyn Community Board #1
Owner Address:	435 Graham Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222
Owner Country:	United States of America
Own Op:	1
Sub Type:	01
Owner Name:	MAUREEN BABIS
Owner Company:	NYC IDA
Owner Address:	110 WILLILAM STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10038
Owner Country:	United States of America
Own Op:	4
Sub Type:	01
Owner Name:	PAUL BURDYN
Owner Company:	ACME ARCHITECTURAL PRODUCTS, INC.
Owner Address:	251 LOMBARDY STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11222
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	C04
Owner Name:	David Camara
Owner Company:	Brooklyn Public Library - Leonard Branch
Owner Address:	81 Devoe Street

ACME STEEL/BRASS FOUNDRY (Continued) **S118950559**

Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Country:	United States of America
HW Code:	224132
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224132
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224132
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	224129
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2008-10-31 14:34:00
Record Updated:	2008-10-31 14:34:00
Updated By:	MOBARRIE
Crossref ID:	224130
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2008-10-31 14:41:00
Record Updated:	2008-10-31 14:41:00
Updated By:	MOBARRIE
Crossref ID:	224131
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2008-10-31 14:42:00
Record Updated:	2008-10-31 14:42:00
Updated By:	MOBARRIE
Crossref ID:	224121
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	2009-01-30 12:36:00
Record Updated:	2009-01-30 12:36:00
Updated By:	JAAVERSA

263
WSW
1/2-1
0.827 mi.
4367 ft.

TOP HAT CLEANERS
152 GRAHAM AVE
BROOKLYN, NY 11206

RCRA-VSQG **1004758111**
NY SHWS **NYD986982908**
ICIS
US AIRS
NY MANIFEST

Relative:
Higher

Actual:
27 ft.

RCRA-VSQG:

Date Form Received by Agency:		20070101
Handler Name:	TOP HAT CLEANERS	
Handler Address:		152 GRAHAM AVE
Handler City,State,Zip:		BROOKLYN, NY 11206
EPA ID:		NYD986982908
Contact Name:		REINA DIAZ
Contact Address:		GRAHAM AVE
Contact City,State,Zip:		BROOKLYN, NY 11206
Contact Telephone:		718-388-2611
Contact Fax:		Not reported
Contact Email:		Not reported

TOP HAT CLEANERS (Continued) **1004758111**

Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	NY
State District:	NYSDEC R2
Mailing Address:	GRAHAM AVE
Mailing City,State,Zip:	BROOKLYN, NY 11206
Owner Name:	REINA DIAZ
Owner Type:	Private
Operator Name:	REINA DIAZ
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported

TOP HAT CLEANERS (Continued) **1004758111**

Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D002
Waste Description:	CORROSIVE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	REINA DIAZ
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	37-49 95TH ST
Owner/Operator City,State,Zip:	JACKSON HEIGHTS, NY 11372
Owner/Operator Telephone:	718-458-5540
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	REINA DIAZ
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	37-49 95TH ST
Owner/Operator City,State,Zip:	JACKSON HEIGHTS, NY 11372
Owner/Operator Telephone:	718-458-5540
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	REINA DIAZ
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	37-49 95TH ST
Owner/Operator City,State,Zip:	JACKSON HEIGHTS, NY 11372
Owner/Operator Telephone:	718-458-5540

TOP HAT CLEANERS (Continued) **1004758111**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20060101
Handler Name: TOP HAT CLEANERS
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: TOP HAT CLEANERS
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19970206
Handler Name: TOP HAT CLEANERS
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NY
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

TOP HAT CLEANERS (Continued) **1004758111**

SHWS:
Name: TOP HAT CLEANERS
Address: 152 GRAHAM AVE.
City,State,Zip: BROOKLYN, NY 11206
Program: HW
Site Code: 504341
Classification: N
Region: 2
Acres: 0.057
HW Code: 224208
Record Add: 02/03/2015
Record Upd: 07/20/2021
Updated By: JHOCONNE
Site Description: "Location: The Site is located at 152 Graham Avenue in the Borough of Brooklyn, Kings County, NY. The site is located in the East Williamsburg section of Brooklyn, New York. The property is bordered by Graham Avenue on the west, by a three-story mixed commercial/residential building to the north, by a four-story mixed commercial/residential building and a three-story mixed commercial/residential building to the south, and by a four-story residential building to the east. The three-story building located to the southeast of the site also has a dry cleaner on the first floor. Site Features: The 2,500 square foot (0.057 acre) site parcel is occupied by a three-story building built in 1920. The site parcel also contains an open yard area behind (east of) the structure. The first floor is occupied by a dry cleaner and the upper two floors are occupied by residential apartments. Current Zoning and Land Use: The current site use is a dry cleaner (Top Hat Cleaners) on the first floor with residential apartments on the second and third floors. Past Use of the Site: According to the historical records, a dry cleaner has occupied the 152 Graham Ave location since approximately 1960. A Phase I study at the adjacent property (154 Graham Avenue) identified current and prior occupants of the ground floor retail space (pastry shop, shoe retailer and moving company, among others) which were not likely to be a source for chlorinated VOC impacts beneath the site. The report identifies the dry cleaner at 152 Graham Avenue (Top Hat Cleaners) as the most likely source of the contaminants identified in soil vapor. Site Geology and Hydrogeology: The site elevation is approximately 27 feet above mean sea level. Soil lithology consists of two main types of soils. The first soil type was fill material that consisted of fine to medium sand to silt with fine to coarse gravel and traces of brick and other miscellaneous debris. The second type was natural material composed of fine to coarse sand to silt with fine to coarse gravel and little clay. Groundwater was encountered between 17.5 feet and 22.5 feet below ground surface. Groundwater flow was determined to be in the north to northwest direction. Site is transferred and being remediated under BCP Site No. C224208."
Env Problem: "Nature and Extent of Contamination: Soil and groundwater were analyzed for volatile organic compounds (VOCs). Based upon investigations conducted to date, the primary contaminant of concern is tetrachloroethene (PCE). Soil - Sampling of soil beneath and behind the site structure was limited due to inability to access the area with a drill rig. Sample results from other media indicate that a source area of higher contaminant concentrations may be present beneath the site structure. Two detections of PCE were observed in soil borings advanced during the Site Characterization. PCE was

TOP HAT CLEANERS (Continued) **1004758111**

detected at MW-02 (0.0036 ppm 17 19) and MW-04 (0.0017 ppm 5 6). Both detections are below the NYCRR Part 375 Soil Clean-up Objective of 1.3 ppm for PCE meeting both Unrestricted Use and Protection of Groundwater objectives. Groundwater - PCE was found in groundwater at two of the three boring locations advanced into the water table. Concentrations in contravention of the Class GA Groundwater standard of five (5) ppb were observed at 56 ppb and 10 ppb. Each of these exceedances were located in the public sidewalk immediately off the site parcel. Soil Vapor & Indoor Air A Vapor Intrusion Investigation was performed at the adjacent building to the north (154 Graham Avenue) as part of a real estate transaction. As part of that investigation two sub-slab vapor samples, one basement indoor air sample, and one ambient air sample were collected. At sub-slab location SG2, 43,399 ug/m3 of PCE was detected in soil vapor. (Note that the concentration reported is from a sample that was diluted 600 times. The concentration of PCE in the undiluted sample was 10,171 ug/m3, which exceeded the calibration range of the equipment.) Trichloroethylene (TCE) was detected at 1074 ug/m3 in the diluted sample and at 1504 ug/m3 in the undiluted sub-slab vapor sample. Cis-1,2-dichlorothylene (cis-1,2-DCE) was detected at 2180 ug/m3 in the diluted sample and at 1110 ug/m3 in the undiluted sub-slab vapor sample. Indoor air sampling results identified 44.1 ug/m3 of PCE and 0.43 ug/m3 of TCE in the basement air sample. See site no. C224208 for additional updates."

Health Problem: "People may contact contaminated soil or groundwater if they dig below the ground surface. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion on-site. Additional investigation of the potential for soil vapor intrusion to occur off-site is needed."

Dump: Not reported
Structure: Not reported
Lagoon: Not reported
Landfill: Not reported
Pond: Not reported
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: Not reported
Record Upd: Not reported
Updated By: Not reported
Own Op: 1
Sub Type: A
Owner Name: Not reported
Owner Company: Belio Urena
Owner Address: 37-49 95th St.
Owner Addr2: Not reported
Owner City,St,Zip: Jackson Heights, NY 11372
Owner Country: United States of America
Own Op: 4

TOP HAT CLEANERS (Continued) **1004758111**

Sub Type:	E
Owner Name:	Daniel Diaz
Owner Company:	Top Hat Cleaners
Owner Address:	152 Graham Ave.
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11206
Owner Country:	United States of America
Own Op:	6
Sub Type:	NNN
Owner Name:	Reina Diaz
Owner Company:	RP
Owner Address:	152 Graham Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11206
Owner Country:	United States of America
Own Op:	6
Sub Type:	NNN
Owner Name:	Belio Urena
Owner Company:	RP
Owner Address:	152 Graham Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11206
Owner Country:	United States of America
Own Op:	6
Sub Type:	NNN
Owner Name:	Elvis Diaz
Owner Company:	English speaking son of Owner/Operator - Daniel Diaz
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	NY
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

ICIS:

Enforcement Action ID:	NY000A0000261040096200327
FRS ID:	110004480865
Action Name:	TOP HAT CLEANERS 36047R192400327
Facility Name:	TOP HAT CLEANERS
Facility Address:	152 GRAHAM AVE BROOKLYN, NY 112062602
Enforcement Action Type:	Notice of Violation
Facility County:	KINGS
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	7216
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	40.70676

TOP HAT CLEANERS (Continued) **1004758111**

Longitude in Decimal Degrees: -73.94311
Permit Type Desc: Not reported
Program System Acronym: NY0000002610400962
Facility NAICS Code: 812320
Tribal Land Code: Not reported

Enforcement Action ID: NY000A0000261040096200314
FRS ID: 110004480865
Action Name: TOP HAT CLEANERS 36047R192400314
Facility Name: TOP HAT CLEANERS
Facility Address: 152 GRAHAM AVE
BROOKLYN, NY 112062602
Enforcement Action Type: Notice of Violation
Facility County: KINGS
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 7216
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 40.70676
Longitude in Decimal Degrees: -73.94311
Permit Type Desc: Not reported
Program System Acronym: NY0000002610400962
Facility NAICS Code: 812320
Tribal Land Code: Not reported

Enforcement Action ID: NY000A0000261040096200304
FRS ID: 110004480865
Action Name: TOP HAT CLEANERS 36047R192400304
Facility Name: TOP HAT CLEANERS
Facility Address: 152 GRAHAM AVE
BROOKLYN, NY 112062602
Enforcement Action Type: Notice of Violation
Facility County: KINGS
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 7216
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 40.70676
Longitude in Decimal Degrees: -73.94311
Permit Type Desc: Not reported
Program System Acronym: NY0000002610400962
Facility NAICS Code: 812320
Tribal Land Code: Not reported

US AIRS MINOR:
Envid: 1004758111
Region Code: 02
Programmatic ID: AIR NY0000002610400962
Facility Registry ID: 110004480865
D and B Number: Not reported
Primary SIC Code: 7216
NAICS Code: 812320
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF

TOP HAT CLEANERS (Continued) **1004758111**

Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 02
Programmatic ID: AIR NY0000002610400962
Facility Registry ID: 110004480865
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2001-11-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 02
Programmatic ID: AIR NY0000002610400962
Facility Registry ID: 110004480865
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2002-09-17 00:00:00
Activity Status Date: 2002-09-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 02
Programmatic ID: AIR NY0000002610400962
Facility Registry ID: 110004480865
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2005-05-09 00:00:00
Activity Status Date: 2005-05-09 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 02
Programmatic ID: AIR NY0000002610400962
Facility Registry ID: 110004480865
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2013-08-07 00:00:00
Activity Status Date: 2013-08-07 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

NY MANIFEST:
Name: TOP HAT CLNRS
Address: 152 GRAHAM AVE
City,State,Zip: BROOKLYN, NY 11206

TOP HAT CLEANERS (Continued) **1004758111**

Country:	USA
EPA ID:	NYD986982908
Facility Status:	Not reported
Location Address 1:	152 GRAHAM AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip:	11206
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD986982908
Mailing Name:	TOP HAT CLNRS
Mailing Contact:	LOU SANCHEZ
Mailing Address 1:	152 GRAHAM AVENUE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11206
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7183382611

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	11/11/2009
Trans1 Recv Date:	11/11/2009
Trans2 Recv Date:	11/13/2009
TSD Site Recv Date:	11/25/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986982908
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980587364
TSDF ID 2:	Not reported
Manifest Tracking Number:	002316054SKS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H020
Waste Code:	Not reported
Waste Code:	Not reported

TOP HAT CLEANERS (Continued) **1004758111**

Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	195
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Waste Code:	F002
Waste Code 1_2:	D007
Waste Code 1_3:	D029
Waste Code 1_4:	D039
Waste Code 1_5:	D040
Waste Code 1_6:	Not reported

264
ENE
1/2-1
0.912 mi.
4817 ft.

FORMER W.L.K. CORP.
58-30 57TH STREET
MASPETH, NY 11378

NY SHWS **S109209067**
N/A

Relative:
Higher

Actual:
25 ft.

SHWS:

Name:	FORMER W.L.K. CORP.
Address:	58-30 57TH STREET
City,State,Zip:	MASPETH, NY 11378
Program:	HW
Site Code:	371165
Classification:	Significant threat to the public health or environment - action required.
Region:	2
Acres:	2.010
HW Code:	241097
Record Add:	09/29/2006
Record Upd:	11/15/2021
Updated By:	GWBURKE
Site Description:	"Location: The Former W.L.K. Corp. Site (58-30 57th St.) is located near the intersection of Grand Avenue and 57th Street in Maspeth, Queens County, New York. Site Features: The site is identified on the Queens Business Borough Tax Map as Block 2610, Lots 412 and 440 and is approximately 2.01 acres in size. The site is bordered on the north by MTA/LIRR rail lines, on the south by Grand Avenue, on the east by 57th Street, and on the west by a commercial/industrial property. The site is mostly paved, with a small area overgrown with vegetation (former railroad spur) present adjacent to the western portion of the building. Current Zoning and Land Use: Lots 412 and 440 are currently zoned M3-l. The site is currently used as a lumber yard with some offices. The surrounding parcels are currently used for a combination of commercial, light industrial, and transportation. The closest residential area is directly across 57th Street. Past Use of the Site: The northern portion of the site has historically been used by a radiator distribution facility (1930's-1940's), a steel pipe distributor (1950's- early 1970's), corrugated box company (early 1980's), a beer distributing company (mid/late 1980's), and a recycling facility (early 1990's - early 2000's). The southern portion of the site is currently occupied by

FORMER W.L.K. CORP. (Continued) **S109209067**

offices and has been used for several businesses. A lubricating oils company occupied this portion of the site at least from 1936 into the 1970's. Over the years other occupants included an oil company sales office, a milk products company, and an engineering firm. Also, a filling station was located on the site at the corner of Grand Avenue and 57th Street from early 1930's to early 1970's. Site Geology and Hydrogeology: Based on soil collected by continuous sampling activities, stratigraphy along the northwestern portion of the site consists of between 8 and 10 feet of fine to medium sand with trace silt and gravel. Along the northern portion of the property the subsurface material is made up of fill consisting of fine sand and rock fragments. The fine to medium sand/silty-sand in the area of the former rail spur next to the loading dock is underlain by a gray to brown clay that is at least several feet thick. The water table is generally encountered at a depth of approximately eight feet below ground surface (bgs) in either the clay or the overlying sand. The shallow groundwater flow is generally southwest."

Env Problem: "Nature and Extent of Contamination: The primary contaminants of concern at the site include chlorinated volatile organic compounds (CVOCs), specifically, Tetrachloroethylene (PCE) and 1,1,1-Trichloroethane (TCA) and their respective breakdown products. Soil: Exceedances of standards, criteria, and guidance in the on-site soils include TCE (max. 31 ppm), 1,1,1-TCA (1.1 ppm), PCE (max. 2.6 ppm), and total 1,2-DCE (max. 46.2 ppm). Groundwater: Exceedances of standards, criteria, and guidance in the groundwater include 1,1,1-TCA (max. 16 ppb), TCE (max. 710 ppb), PCE (max. 47 ppb), and total 1,2-DCE (max. 548 ppb). Samples taken off-site, adjacent to the former railroad spur area, revealed exceedances in the groundwater of 1,1,1-TCA (max. 71,000 ppb), TCE (360,000 ppb) and 1,2-DCE (max. 42,000 ppb). Soil Vapor: Elevated levels of VOCs were detected in sub-slab soil vapor and indoor air. The maximum concentrations of PCE and TCE in sub-slab soil vapor were detected in the western portion of the existing warehouse at the respective concentrations of 22 micrograms per cubic meter (ug/m3) and 2,310 ug/m3. The maximum concentrations of PCE and TCE in indoor air were detected in the same portion of the warehouse at the concentrations of 1.8 ug/m3 and 2.5 ug/m3. Sampling indicates that contaminated soil vapor extends off-site with TCE in sub-slab soil vapor and indoor air up to 7,260 ug/m3 and 0.38 ug/m3, respectively. Significant Threat: The site presents a significant threat to the environment due to significant groundwater and soil contamination. PCE and TCA are chlorinated volatile organics that are mobile in groundwater, persistent in soil vapor, and considered carcinogenic. Groundwater was observed approximately 8 feet below ground surface and determined flowing in a southwesterly direction. Contamination has been detected migrating downgradient from the site. "

Health Problem: "Further investigation is needed to assess the nature and extent of site-related contamination and the potential for exposure to site contaminants. The site currently has several buildings and a paved parking lot, therefore, contact with subsurface contamination is unlikely. Exposure to site-related contaminants in drinking water is not expected because the area is served by public water. NYSDOH and NYSDEC will evaluate the need for additional investigations to determine the potential for soil vapor intrusion to occur. "

Dump: False
Structure: False
Lagoon: False

FORMER W.L.K. CORP. (Continued) **S109209067**

Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	73:54'47" / 40:43'15"
Dell:	False
Record Add:	2006-09-29 11:13:00
Record Upd:	2013-09-19 14:58:00
Updated By:	kbdilige
Own Op:	1
Sub Type:	NNN
Owner Name:	BERNARD ETRA
Owner Company:	RUBY REALTY CO.
Owner Address:	58-30 57TH STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	MASPETH, NY 11378
Owner Country:	United States of America
HW Code:	241097
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241097
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241097
Waste Type:	1,1,1 TCA
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241097
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241097
Waste Type:	1,1,1-TCA
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241097
Waste Type:	1,1,1-Trichloroethane(TCA)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

265
WNW
1/2-1
0.987 mi.
5213 ft.

CITY BARREL CO.
421-429 MEEKER STREET
BROOKLYN, NY 11378

NY SHWS **S105972440**
N/A

Relative:
Higher

Actual:
14 ft.

SHWS:

Name:	CITY BARREL CO.
Address:	421-429 MEEKER STREET
City,State,Zip:	BROOKLYN, NY 11378
Program:	HW
Site Code:	55909
Classification:	N
Region:	2
Acres:	Not reported
HW Code:	224005
Record Add:	11/18/1999
Record Upd:	12/16/2003
Updated By:	kstang
Site Description:	"The site did not qualify for addition to the Registry of Inactive Hazardous Disposal Sites. This site was listed in the Eckhardt subcommittee report as a disposal site. Investigation by the NYSDEC Regional offices indicate that this is an industrial operation to recycle, recover and refurbish drums and that no apparent disposal of hazardous or toxic waste have occurred here."
Env Problem:	"None known. No apparent disposal of significant quantities of any hazardous waste."
Health Problem:	""
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	Not reported
Sub Type:	Not reported
Owner Name:	Not reported
Owner Company:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Country:	Not reported
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

Count: 12 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BROOKLYN	S125896301	BOX STREET GW	BOX STREET BTW MANHATTAN AVE A	11222	NY SHWS
BROOKLYN	S113916751	INGRAHAM STREET SIDEWALK GW	INGRAHAM STREET	11237	NY SHWS
BROOKLYN	S113917078	NORTH OF CORNISH KNIT GOODS	JOHNSON AVE	11206	NY SHWS
BROOKLYN	S105972439	JONES MOTORS	LOMBARDY STREET (FOOT OF NEWTO		NY SHWS
BROOKLYN	S113922158	EQUITY WORKS	MASPETH AND VANDERVORT AVES.	11211	NY VCP
BROOKLYN	S113916693	MEEKER AVENUE PLUME TRACKDOWN	MEEKER AVENUE	11222	NY SHWS
BROOKLYN	1026004733	MEEKER AVENUE PLUME	MEEKER AVENUE	11222	Proposed NPL, SEMS
BROOKLYN	S113916666	MORGAN OIL TERMINAL	224038 MORGAN OIL TERMINAL		NY SHWS
BROOKLYN	S110487592	K - SCHOLES ST. STATION	SCHOLES ST 7 BOGART STS, MESSE	11206	NY SHWS, NY BROWNFIELDS
BROOKLYN	S113922100	SCHOLES ST. STATION	SCHOLES ST 7 BOGART STS, MESSE	11206	NY VCP
QUEENS	S122985415	A&G USED AUTO PART D/B/A PARTS ARE	1937 B FLUSHING AVERNUE	11385	NY SWF/LF
RIDGEWOOD	S118628347	WOLFF-ALPORT CHEMICAL COMPANY	1127-1129 IRVING AVENUE	11385	NY SHWS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: N/A
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: N/A
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: N/A
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 07/12/2021
Date Data Arrived at EDR: 08/06/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 77

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/08/2021
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/23/2021
Date Data Arrived at EDR: 08/23/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/18/2021
Next Scheduled EDR Contact: 03/06/2022
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/23/2021
Date Data Arrived at EDR: 08/23/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/19/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/21/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 85

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 01/06/2022
Date Data Arrived at EDR: 01/06/2022
Date Made Active in Reports: 01/07/2022
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 01/06/2022
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Annually

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/30/2021
Date Data Arrived at EDR: 10/28/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 518-402-8678
Last EDR Contact: 12/22/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

LTANKS: Spills Information Database
Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 08/09/2021
Date Data Arrived at EDR: 08/10/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 45
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 11/10/2021
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 12/18/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 09/20/2021
Date Data Arrived at EDR: 09/22/2021
Date Made Active in Reports: 12/13/2021
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 09/20/2021
Date Data Arrived at EDR: 09/22/2021
Date Made Active in Reports: 12/13/2021
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CBS: Chemical Bulk Storage Site Listing

These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 09/20/2021
Date Data Arrived at EDR: 09/22/2021
Date Made Active in Reports: 12/13/2021
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

AST: Petroleum Bulk Storage

Registered Aboveground Storage Tanks.

Date of Government Version: 09/20/2021
Date Data Arrived at EDR: 09/22/2021
Date Made Active in Reports: 12/13/2021
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

TANKS: Storage Tank Faciliy Listing

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 09/20/2021
Date Data Arrived at EDR: 09/22/2021
Date Made Active in Reports: 12/13/2021
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENV RES DECL: Environmental Restrictive Declarations

The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 08/26/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/06/2021
Number of Days to Update: 81

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 12/13/2021
Next Scheduled EDR Contact: 03/28/2022
Data Release Frequency: Varies

RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 08/26/2021
Date Data Arrived at EDR: 09/14/2021
Date Made Active in Reports: 12/03/2021
Number of Days to Update: 80

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 12/13/2021
Next Scheduled EDR Contact: 03/28/2022
Data Release Frequency: Varies

ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 01/06/2022
Date Data Arrived at EDR: 01/06/2022
Date Made Active in Reports: 01/07/2022
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 01/06/2022
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 01/06/2022
Date Data Arrived at EDR: 01/06/2022
Date Made Active in Reports: 01/07/2022
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 01/06/2022
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/14/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Varies

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 01/06/2022
Date Data Arrived at EDR: 01/06/2022
Date Made Active in Reports: 01/07/2022
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 01/06/2022
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP NYC: Voluntary Cleanup Program Listing NYC

New York City voluntary cleanup program sites.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/08/2021
Date Made Active in Reports: 01/06/2022
Number of Days to Update: 29

Source: New York City Office of Environmental Protection
Telephone: 212-788-8841
Last EDR Contact: 12/08/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Site List

A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 01/06/2022
Date Data Arrived at EDR: 01/06/2022
Date Made Active in Reports: 01/07/2022
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 01/06/2022
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Semi-Annually

ERP: Environmental Restoration Program Listing

In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 01/06/2022
Date Data Arrived at EDR: 01/06/2022
Date Made Active in Reports: 01/07/2022
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 01/06/2022
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/10/2021
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/08/2021
Next Scheduled EDR Contact: 03/28/2022
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 02/27/2018
Date Data Arrived at EDR: 04/06/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 63

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 12/02/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: No Update Planned

SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 09/30/2021
Date Data Arrived at EDR: 10/28/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 518-402-8678
Last EDR Contact: 12/22/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/22/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 10/28/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: No Update Planned

DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 01/06/2022
Date Data Arrived at EDR: 01/06/2022
Date Made Active in Reports: 01/07/2022
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 01/06/2022
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

DEC surveyed select businesses, fire departments, fire training centers, bulk storage facilities, airports, and Department of Defense (DoD) facilities. The responses to the survey have helped to determine if these entities used or stored materials containing PFOA/PFOS including AFFF and dispersants used in Teflon coating operations. The results of this survey will be updated periodically as additional responses are received..

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 05/08/2019
Date Made Active in Reports: 06/24/2019
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-9020
Last EDR Contact: 11/05/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Spill Liens Information
Lien information from the Oil Spill Fund.

Date of Government Version: 07/27/2021
Date Data Arrived at EDR: 07/28/2021
Date Made Active in Reports: 10/21/2021
Number of Days to Update: 85
Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 11/01/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/12/2021
Date Data Arrived at EDR: 09/13/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 15
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

SPILLS: Spills Information Database
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 08/09/2021
Date Data Arrived at EDR: 08/10/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 45

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 11/10/2021
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 08/10/2021
Date Data Arrived at EDR: 08/17/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 66

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/16/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/14/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/08/2021
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/01/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/05/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 03/28/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/16/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/20/2021
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 82

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/01/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 40

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/24/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 87
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 11/30/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/02/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/05/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/27/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/26/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2021
Date Data Arrived at EDR: 10/13/2021
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 89

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 90

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/04/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/01/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 12/09/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/09/2021
Date Data Arrived at EDR: 08/24/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 87

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/22/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/14/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 91
Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/14/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/05/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 91
Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 11/22/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/11/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/23/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 6
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/04/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/13/2021
Date Data Arrived at EDR: 08/13/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 70
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/15/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Quarterly

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 07/14/2021
Date Data Arrived at EDR: 07/29/2021
Date Made Active in Reports: 10/25/2021
Number of Days to Update: 88

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 09/29/2021
Date Data Arrived at EDR: 09/30/2021
Date Made Active in Reports: 12/23/2021
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

DRYCLEANERS: Registered Drycleaners
A listing of all registered drycleaning facilities.

Date of Government Version: 09/02/2021
Date Data Arrived at EDR: 09/02/2021
Date Made Active in Reports: 11/23/2021
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 12/02/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING
The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 12/13/2021
Date Data Arrived at EDR: 12/17/2021
Date Made Active in Reports: 12/30/2021
Number of Days to Update: 13

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 12/13/2021
Next Scheduled EDR Contact: 03/28/2022
Data Release Frequency: Semi-Annually

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 10/01/2021
Date Data Arrived at EDR: 10/01/2021
Date Made Active in Reports: 12/21/2021
Number of Days to Update: 81

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/11/2020
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 09/02/2020
Number of Days to Update: 78

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 12/02/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

HSWDS: Hazardous Substance Waste Disposal Site Inventory
The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/29/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Quarterly

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 07/27/2021
Date Data Arrived at EDR: 07/29/2021
Date Made Active in Reports: 10/25/2021
Number of Days to Update: 88

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: No Update Planned

VAPOR REOPENED: Vapor Intrusion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 12/01/2018
Date Data Arrived at EDR: 02/13/2019
Date Made Active in Reports: 06/13/2019
Number of Days to Update: 120

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 11/12/2021
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Varies

UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 08/29/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/23/2021
Number of Days to Update: 83

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 11/30/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Quarterly

COOLING TOWERS: Registered Cooling Towers

This data includes the location of cooling towers registered with New York State. The data is self-reported by owners/property managers of cooling towers in service in New York State. In August 2015, the New York State Department of Health released emergency regulations requiring the owners of cooling towers to register them with New York State.

Date of Government Version: 10/05/2021
Date Data Arrived at EDR: 10/11/2021
Date Made Active in Reports: 01/05/2022
Number of Days to Update: 86

Source: Department of Health
Telephone: 518-402-7650
Last EDR Contact: 01/12/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

NYC LEAD 2: Recent Lead Paint Violations

Pursuant to New York City?s Housing Maintenance Code, the Department of Housing Preservation and Development (HPD) issues violations against conditions in rental dwelling units that have been verified to violate the New York City Housing Maintenance Code (HMC) or the New York State Multiple Dwelling Law (MDL). Violations are issued when an inspection verifies that a violation of the HMC or MDL exists. It is closed when the violation is corrected, as observed/verified by HPD or as certified by the landlord.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 07/30/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 84

Source: New York City Department of Housing Preservation & Development
Telephone: 212-863-8200
Last EDR Contact: 11/03/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/23/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

NYC LEAD: Lead-based Paint Testing Results

The results of the inspections for all classrooms serving students under six in applicable buildings. Identifies all classrooms, whether there was observation of peeling paint, and if there was, standard response protocol was followed.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 08/17/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 0

Source: New York City Department of Education
Telephone: 212-374-5141
Last EDR Contact: 11/03/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

CORTLAND COUNTY:

AST - CORTLAND: Cortland County Storage Tank Listing

A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/16/2019
Number of Days to Update: 57

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 10/25/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Quarterly

UST - CORTLAND: Cortland County Storage Tank Listing

A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/16/2019
Number of Days to Update: 57

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 10/25/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Quarterly

NASSAU COUNTY:

AST - NASSAU: Registered Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 10/25/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: No Update Planned

AST NCFM: Storage Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 10/25/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Varies

TANKS NASSAU: Registered Tank Database in Nassau County
A listing of facilities in Nassau County with storage tanks.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35
Source: Nassau County Department of Health
Telephone: 516-227-9691
Last EDR Contact: 10/25/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Varies

UST - NASSAU: Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35
Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 10/25/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: No Update Planned

UST NCFM: Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34
Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 10/25/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Varies

ROCKLAND COUNTY:

AST - ROCKLAND: Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County. Rockland County?s Petroleum Bulk Storage (PBS) program is no longer in service. All related operations/duties are now wholly overseen by the New York State Dept. of Environmental Conservation (NYSDEC).

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189
Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 11/29/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: No Update Planned

UST - ROCKLAND: Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County. Rockland County?s Petroleum Bulk Storage (PBS) program is no longer in service. All related operations/duties are now wholly overseen by the New York State Dept. of Environmental Conservation (NYSDEC).

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189
Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 11/29/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: No Update Planned

SUFFOLK COUNTY:

AST - SUFFOLK: Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 06/28/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 02/07/2019
Number of Days to Update: 63
Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 10/25/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: No Update Planned

TANKS SUFFOLK: Storage Tank Database

This county is not included in the state?s database. These are facilities that have no tank information in the storage tank database.

Date of Government Version: 06/28/2018
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31

Source: Department of Health Services
Telephone: 631-854-2516
Last EDR Contact: 10/25/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Varies

UST - SUFFOLK: Storage Tank Database

A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 06/28/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 02/07/2019
Number of Days to Update: 63

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 10/25/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

AST - WESTCHESTER: Listing of Storage Tanks

A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 07/01/2021
Date Data Arrived at EDR: 08/06/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 14

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 10/25/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Semi-Annually

UST - WESTCHESTER: Listing of Storage Tanks

A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 07/01/2021
Date Data Arrived at EDR: 08/06/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 14

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 10/25/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Semi-Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/23/2021
Date Data Arrived at EDR: 08/10/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 90

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/12/2021
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/10/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/29/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/09/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/10/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/06/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

213 MEADOW STREET
213 MEADOW STREET
BROOKLYN, NY 11237

TARGET PROPERTY COORDINATES

Latitude (North):	40.713041 - 40ˆ 42’ 46.95’’
Longitude (West):	73.928211 - 73ˆ 55’ 41.56’’
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	590532.1
UTM Y (Meters):	4507243.5
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	14115940 BROOKLYN, NY
Version Date:	2019

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

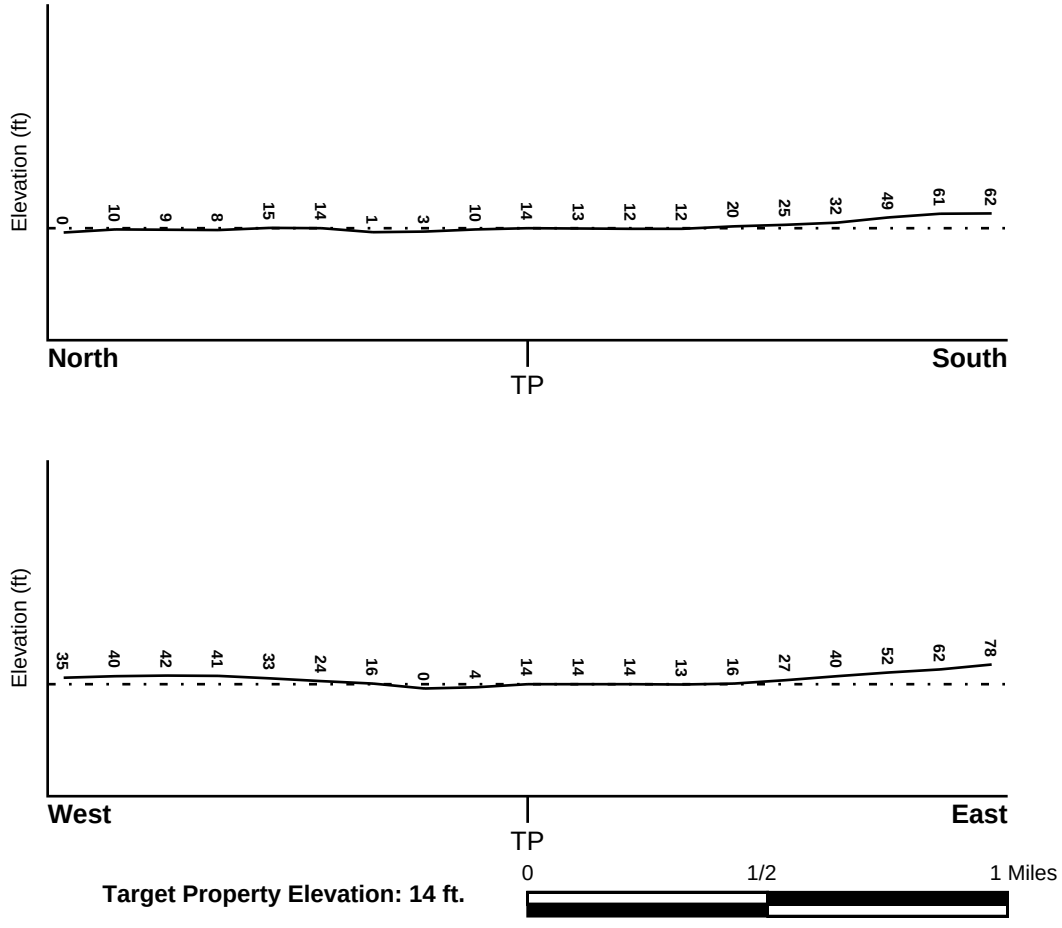
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 14 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
3604970208F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
3604970202F	FEMA FIRM Flood data
3604970206F	FEMA FIRM Flood data
3604970204F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BROOKLYN	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1 - 2 Miles NNE
Site Name:	Phelps Dodge Refining Corp
Site EPA ID Number:	NYD039138789
Groundwater Flow Direction:	DEPENDENT ON WELL PUMPING RATES.
Measured Depth to Water:	not available.
Hydraulic Connection:	Salt water intrusion may be present at the site. Information about the hydraulic connection between aquifers underlying the site is not available. The depth to bedrock is approximately 60 feet.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
loamy sand
sandy loam
fine sandy loam

Surficial Soil Types: silt loam
loamy sand
sandy loam
fine sandy loam

Shallow Soil Types: sandy loam

Deeper Soil Types: unweathered bedrock
very gravelly - loamy sand
stratified
sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	USGS40000829330	1/4 - 1/2 Mile SSE
A4	USGS40000829306	1/4 - 1/2 Mile SSE
5	USGS40000829283	1/4 - 1/2 Mile SSE
9	USGS40000829428	1/4 - 1/2 Mile East
C10	USGS40000829706	1/4 - 1/2 Mile North
C11	USGS40000829722	1/4 - 1/2 Mile North
12	USGS40000829655	1/4 - 1/2 Mile NW
15	USGS40000829364	1/4 - 1/2 Mile WSW
21	USGS40000829247	1/4 - 1/2 Mile SSW
24	USGS40000829597	1/2 - 1 Mile WNW
25	USGS40000829202	1/2 - 1 Mile SSE
G26	USGS40000829232	1/2 - 1 Mile SW
28	USGS40000829791	1/2 - 1 Mile NNE
G29	USGS40000829233	1/2 - 1 Mile SW
30	USGS40000829234	1/2 - 1 Mile SW
31	USGS40000829116	1/2 - 1 Mile SSW
H32	USGS40000829101	1/2 - 1 Mile SSE
I33	USGS40000829273	1/2 - 1 Mile WSW
I34	USGS40000829261	1/2 - 1 Mile WSW
H35	USGS40000829082	1/2 - 1 Mile South
J37	USGS40000829385	1/2 - 1 Mile WSW
J38	USGS40000829386	1/2 - 1 Mile WSW
39	USGS40000829063	1/2 - 1 Mile SSW
40	USGS40000829528	1/2 - 1 Mile West
41	USGS40000829291	1/2 - 1 Mile WSW
K42	USGS40000829052	1/2 - 1 Mile SSW
L44	USGS40000829000	1/2 - 1 Mile South
K45	USGS40000829031	1/2 - 1 Mile SSW
K46	USGS40000829032	1/2 - 1 Mile SSW
47	USGS40000829962	1/2 - 1 Mile NNE
48	USGS40000829001	1/2 - 1 Mile SSW
49	USGS40000829883	1/2 - 1 Mile NE
M50	USGS40000829262	1/2 - 1 Mile WSW
L51	USGS40000828957	1/2 - 1 Mile SSW
N52	USGS40000829002	1/2 - 1 Mile SSW
N53	USGS40000829003	1/2 - 1 Mile SSW
54	USGS40000830095	1/2 - 1 Mile North
55	USGS40000829320	1/2 - 1 Mile WSW
56	USGS40000829892	1/2 - 1 Mile NW
M57	USGS40000829242	1/2 - 1 Mile WSW
58	USGS40000830073	1/2 - 1 Mile NNE
59	USGS40000830081	1/2 - 1 Mile NNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

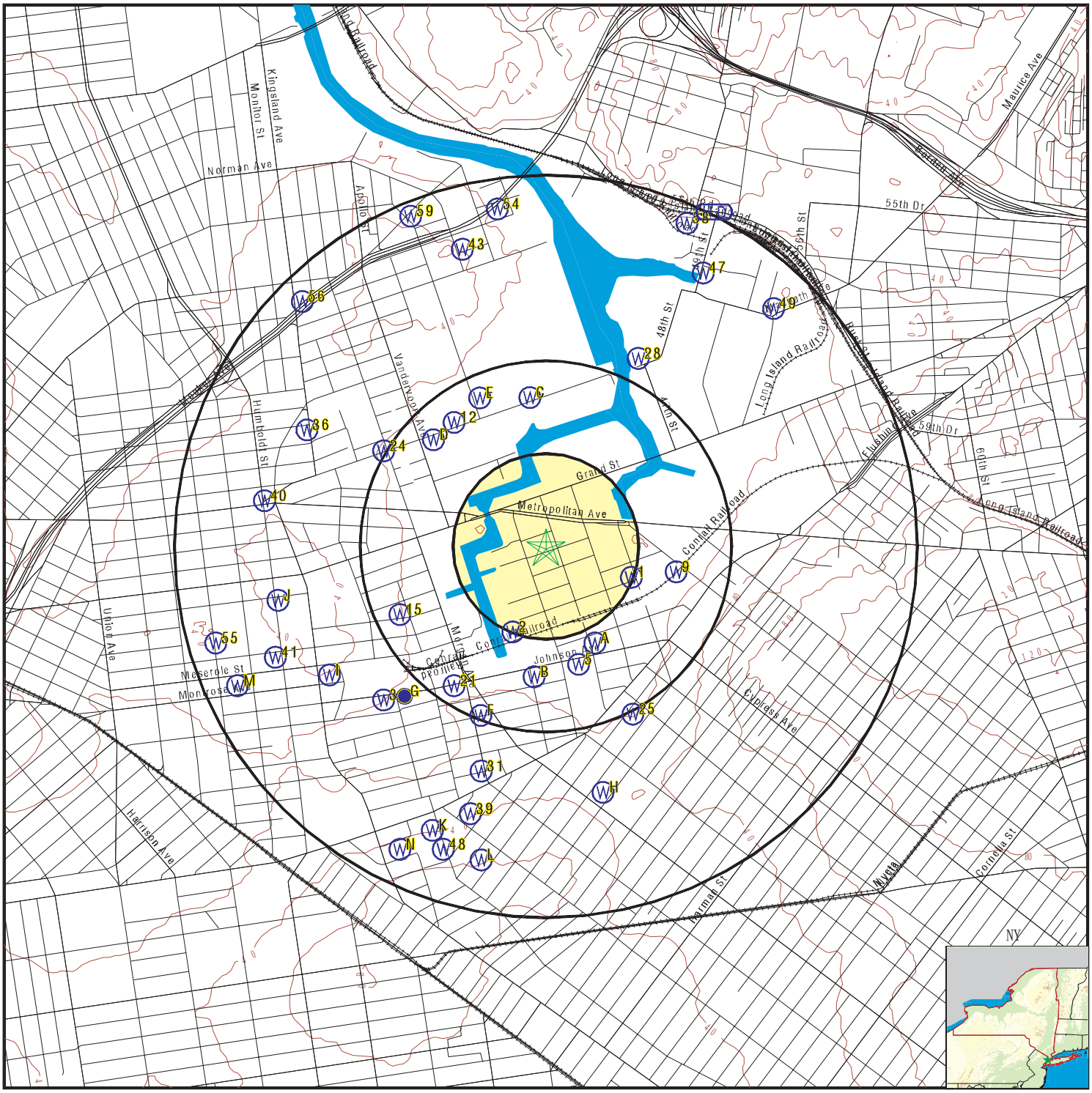
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	NYREG1000000204	1/8 - 1/4 Mile ESE
2	NYREG1000000262	1/8 - 1/4 Mile SSW
B6	NYREG1000000136	1/4 - 1/2 Mile South
B7	NYREG1000000137	1/4 - 1/2 Mile South
B8	NYREG1000000148	1/4 - 1/2 Mile South
D13	NYREG1000000236	1/4 - 1/2 Mile NW
D14	NYREG1000000150	1/4 - 1/2 Mile NW
E16	NYREG1000000037	1/4 - 1/2 Mile NNW
E17	NYREG1000000036	1/4 - 1/2 Mile NNW
E18	NYREG1000000038	1/4 - 1/2 Mile NNW
E19	NYREG1000000043	1/4 - 1/2 Mile NNW
E20	NYREG1000000042	1/4 - 1/2 Mile NNW
F22	NYREG1000000185	1/4 - 1/2 Mile SSW
F23	NYREG1000000188	1/2 - 1 Mile SSW
G27	NYREG1000000018	1/2 - 1 Mile SW
36	NYREG1000000142	1/2 - 1 Mile WNW
43	NYREG1000000104	1/2 - 1 Mile NNW

PHYSICAL SETTING SOURCE MAP - 6826547.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	213 Meadow Street	CLIENT:	Langan Engineering
ADDRESS:	213 Meadow Street Brooklyn NY 11237	CONTACT:	Molly Mattern
		INQUIRY #:	6826547.2s
LAT/LONG:	40.713041 / 73.928211	DATE:	January 20, 2022 11:30 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

1
ESE
1/8 - 1/4 Mile
Higher

NY WELLS **NYREG1000000204**

Well Number:	K003554	Owner:	Allocco Recycling
Well Depth:	80	Diameter:	4
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

2
SSW
1/8 - 1/4 Mile
Lower

NY WELLS **NYREG1000000262**

Well Number:	K003610	Owner:	Cooper Tank Recycling
Well Depth:	79	Diameter:	4
Casing Length:	0	Screen Diameter:	4
Screen Length:	10		

A3
SSE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000829330**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1990. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	70	Well Hole Depth Units:	ft

A4
SSE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000829306**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1346. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	168	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

5
SSE
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000829283**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 2598. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Glacial Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

B6
South
1/4 - 1/2 Mile
Higher | **NY WELLS** | **NYREG1000000136**

Well Number:	K003491T	Owner:	Shield Environmental Associates
Well Depth:	23	Diameter:	2
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

B7
South
1/4 - 1/2 Mile
Higher | **NY WELLS** | **NYREG1000000137**

Well Number:	K003492T	Owner:	Shield Environmental Associates
Well Depth:	23	Diameter:	2
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

B8
South
1/4 - 1/2 Mile
Higher | **NY WELLS** | **NYREG1000000148**

Well Number:	K003502	Owner:	Shield Environmental Associates
Well Depth:	23	Diameter:	2
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

9
East
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000829428**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	Q 1947. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Glacial Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	83
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

C10
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000829706**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 675. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	222	Well Hole Depth Units:	ft

C11
North
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000829722**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1977. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	163	Well Hole Depth Units:	ft

12
NW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000829655**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 569. 1	Type:	Well
Description:	Not Reported	HUC:	02030201

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	190	Well Hole Depth Units:	ft

D13
NW
1/4 - 1/2 Mile
Higher

NY WELLS **NYREG1000000236**

Well Number:	K003584	Owner:	Cooper Tank And Welding Corporation
Well Depth:	200	Diameter:	4
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

D14
NW
1/4 - 1/2 Mile
Higher

NY WELLS **NYREG1000000150**

Well Number:	K003504	Owner:	Cooper Tank And Welding Corporation
Well Depth:	80	Diameter:	6
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

15
WSW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000829364**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 889. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Glacial Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	74
Well Depth Units:	ft	Well Hole Depth:	74
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	265	Level reading date:	1985-10-01
Feet below surface:	Not Reported	Feet to sea level:	3.53
Note:	Not Reported		
Level reading date:	1985-05-21	Feet below surface:	Not Reported
Feet to sea level:	4.48	Note:	Not Reported
Level reading date:	1984-12-18	Feet below surface:	Not Reported
Feet to sea level:	4.95	Note:	Not Reported
Level reading date:	1984-10-05	Feet below surface:	Not Reported
Feet to sea level:	5.16	Note:	Not Reported

Level reading date:	1984-06-27	Feet below surface:	Not Reported
Feet to sea level:	5.47	Note:	Not Reported
Level reading date:	1984-03-15	Feet below surface:	Not Reported
Feet to sea level:	5.13	Note:	Not Reported
Level reading date:	1984-01-05	Feet below surface:	Not Reported
Feet to sea level:	5.76	Note:	Not Reported
Level reading date:	1983-09-29	Feet below surface:	Not Reported
Feet to sea level:	4.96	Note:	Not Reported
Level reading date:	1983-06-29	Feet below surface:	Not Reported
Feet to sea level:	4.59	Note:	Not Reported
Level reading date:	1983-03-25	Feet below surface:	Not Reported
Feet to sea level:	3.96	Note:	Not Reported
Level reading date:	1982-12-21	Feet below surface:	Not Reported
Feet to sea level:	3.69	Note:	Not Reported
Level reading date:	1982-10-06	Feet below surface:	Not Reported
Feet to sea level:	3.86	Note:	Not Reported
Level reading date:	1982-06-30	Feet below surface:	Not Reported
Feet to sea level:	3.96	Note:	Not Reported
Level reading date:	1982-04-02	Feet below surface:	Not Reported
Feet to sea level:	4.19	Note:	Not Reported
Level reading date:	1981-12-29	Feet below surface:	Not Reported
Feet to sea level:	4.01	Note:	Not Reported
Level reading date:	1981-09-23	Feet below surface:	Not Reported
Feet to sea level:	4.10	Note:	Not Reported
Level reading date:	1981-06-24	Feet below surface:	Not Reported
Feet to sea level:	4.28	Note:	Not Reported
Level reading date:	1981-03-18	Feet below surface:	Not Reported
Feet to sea level:	5.36	Note:	Not Reported
Level reading date:	1980-12-30	Feet below surface:	Not Reported
Feet to sea level:	3.96	Note:	Not Reported
Level reading date:	1980-09-23	Feet below surface:	Not Reported
Feet to sea level:	5.06	Note:	Not Reported
Level reading date:	1980-06-24	Feet below surface:	Not Reported
Feet to sea level:	5.14	Note:	Not Reported
Level reading date:	1980-03-13	Feet below surface:	Not Reported
Feet to sea level:	4.02	Note:	Not Reported
Level reading date:	1979-12-18	Feet below surface:	Not Reported
Feet to sea level:	4.92	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	Not Reported
Feet to sea level:	4.57	Note:	Not Reported
Level reading date:	1979-06-28	Feet below surface:	Not Reported
Feet to sea level:	4.07	Note:	Not Reported

Level reading date:	1979-03-26	Feet below surface:	Not Reported
Feet to sea level:	5.46	Note:	Not Reported
Level reading date:	1978-12-22	Feet below surface:	Not Reported
Feet to sea level:	5.11	Note:	Not Reported
Level reading date:	1978-10-02	Feet below surface:	Not Reported
Feet to sea level:	5.94	Note:	Not Reported
Level reading date:	1978-06-23	Feet below surface:	Not Reported
Feet to sea level:	3.93	Note:	Not Reported
Level reading date:	1978-04-04	Feet below surface:	Not Reported
Feet to sea level:	4.06	Note:	Not Reported
Level reading date:	1978-01-03	Feet below surface:	Not Reported
Feet to sea level:	4.29	Note:	Not Reported
Level reading date:	1977-09-22	Feet below surface:	Not Reported
Feet to sea level:	3.81	Note:	Not Reported
Level reading date:	1977-07-07	Feet below surface:	Not Reported
Feet to sea level:	3.33	Note:	Not Reported
Level reading date:	1977-03-29	Feet below surface:	Not Reported
Feet to sea level:	2.60	Note:	Not Reported
Level reading date:	1976-12-22	Feet below surface:	Not Reported
Feet to sea level:	2.81	Note:	Not Reported
Level reading date:	1976-09-23	Feet below surface:	Not Reported
Feet to sea level:	3.25	Note:	Not Reported
Level reading date:	1976-07-09	Feet below surface:	Not Reported
Feet to sea level:	3.97	Note:	Not Reported
Level reading date:	1976-06-28	Feet below surface:	Not Reported
Feet to sea level:	3.21	Note:	Not Reported
Level reading date:	1976-03-23	Feet below surface:	Not Reported
Feet to sea level:	3.02	Note:	Not Reported
Level reading date:	1975-12-16	Feet below surface:	Not Reported
Feet to sea level:	3.17	Note:	Not Reported
Level reading date:	1975-10-07	Feet below surface:	Not Reported
Feet to sea level:	3.10	Note:	Not Reported
Level reading date:	1975-06-30	Feet below surface:	Not Reported
Feet to sea level:	2.80	Note:	Not Reported
Level reading date:	1975-03-26	Feet below surface:	Not Reported
Feet to sea level:	2.67	Note:	Not Reported
Level reading date:	1974-12-19	Feet below surface:	Not Reported
Feet to sea level:	1.99	Note:	Not Reported
Level reading date:	1974-09-04	Feet below surface:	Not Reported
Feet to sea level:	2.44	Note:	Not Reported
Level reading date:	1974-06-26	Feet below surface:	Not Reported
Feet to sea level:	2.58	Note:	Not Reported

Level reading date:	1974-03-19	Feet below surface:	Not Reported
Feet to sea level:	2.36	Note:	Not Reported
Level reading date:	1974-01-09	Feet below surface:	Not Reported
Feet to sea level:	2.26	Note:	Not Reported
Level reading date:	1973-09-24	Feet below surface:	Not Reported
Feet to sea level:	1.86	Note:	Not Reported
Level reading date:	1973-07-02	Feet below surface:	Not Reported
Feet to sea level:	2.22	Note:	Not Reported
Level reading date:	1973-04-03	Feet below surface:	Not Reported
Feet to sea level:	0.97	Note:	Not Reported
Level reading date:	1972-12-27	Feet below surface:	Not Reported
Feet to sea level:	1.70	Note:	Not Reported
Level reading date:	1972-10-02	Feet below surface:	Not Reported
Feet to sea level:	1.57	Note:	Not Reported
Level reading date:	1972-07-10	Feet below surface:	Not Reported
Feet to sea level:	1.94	Note:	Not Reported
Level reading date:	1972-03-28	Feet below surface:	Not Reported
Feet to sea level:	0.27	Note:	Not Reported
Level reading date:	1972-01-13	Feet below surface:	Not Reported
Feet to sea level:	0.44	Note:	Not Reported
Level reading date:	1971-09-27	Feet below surface:	Not Reported
Feet to sea level:	0.57	Note:	Not Reported
Level reading date:	1971-03-08	Feet below surface:	Not Reported
Feet to sea level:	1.08	Note:	Not Reported
Level reading date:	1970-11-02	Feet below surface:	Not Reported
Feet to sea level:	1.02	Note:	Not Reported
Level reading date:	1970-03-13	Feet below surface:	Not Reported
Feet to sea level:	1.52	Note:	Not Reported
Level reading date:	1969-11-12	Feet below surface:	Not Reported
Feet to sea level:	0.49	Note:	Not Reported
Level reading date:	1969-09-05	Feet below surface:	Not Reported
Feet to sea level:	0.24	Note:	Not Reported
Level reading date:	1969-04-23	Feet below surface:	Not Reported
Feet to sea level:	-0.34	Note:	Not Reported
Level reading date:	1968-11-06	Feet below surface:	Not Reported
Feet to sea level:	-3.34	Note:	Not Reported
Level reading date:	1968-04-22	Feet below surface:	Not Reported
Feet to sea level:	0.46	Note:	Not Reported
Level reading date:	1967-10-20	Feet below surface:	Not Reported
Feet to sea level:	-0.01	Note:	Not Reported
Level reading date:	1967-03-28	Feet below surface:	Not Reported
Feet to sea level:	-0.64	Note:	Not Reported

Level reading date:	1966-10-24	Feet below surface:	Not Reported
Feet to sea level:	-2.53	Note:	Not Reported
Level reading date:	1966-05-03	Feet below surface:	Not Reported
Feet to sea level:	-0.64	Note:	Not Reported
Level reading date:	1965-10-28	Feet below surface:	Not Reported
Feet to sea level:	-1.85	Note:	Not Reported
Level reading date:	1965-09-14	Feet below surface:	Not Reported
Feet to sea level:	-2.21	Note:	Not Reported
Level reading date:	1964-10-30	Feet below surface:	Not Reported
Feet to sea level:	-1.79	Note:	Not Reported
Level reading date:	1964-04-27	Feet below surface:	Not Reported
Feet to sea level:	-0.19	Note:	Not Reported
Level reading date:	1963-11-05	Feet below surface:	Not Reported
Feet to sea level:	-1.31	Note:	Not Reported
Level reading date:	1963-04-29	Feet below surface:	Not Reported
Feet to sea level:	-0.13	Note:	Not Reported
Level reading date:	1962-12-04	Feet below surface:	Not Reported
Feet to sea level:	-0.88	Note:	Not Reported
Level reading date:	1962-04-26	Feet below surface:	Not Reported
Feet to sea level:	-0.54	Note:	Not Reported
Level reading date:	1961-12-28	Feet below surface:	Not Reported
Feet to sea level:	-1.92	Note:	Not Reported
Level reading date:	1961-10-02	Feet below surface:	Not Reported
Feet to sea level:	-2.45	Note:	Not Reported
Level reading date:	1961-03-28	Feet below surface:	Not Reported
Feet to sea level:	-3.06	Note:	Not Reported
Level reading date:	1960-12-27	Feet below surface:	Not Reported
Feet to sea level:	-3.44	Note:	Not Reported
Level reading date:	1960-09-28	Feet below surface:	Not Reported
Feet to sea level:	-4.38	Note:	Not Reported
Level reading date:	1960-07-05	Feet below surface:	Not Reported
Feet to sea level:	-4.23	Note:	Not Reported
Level reading date:	1960-03-31	Feet below surface:	Not Reported
Feet to sea level:	-4.56	Note:	Not Reported
Level reading date:	1960-01-14	Feet below surface:	Not Reported
Feet to sea level:	-4.97	Note:	Not Reported
Level reading date:	1959-10-07	Feet below surface:	Not Reported
Feet to sea level:	-5.06	Note:	Not Reported
Level reading date:	1959-07-17	Feet below surface:	Not Reported
Feet to sea level:	-4.44	Note:	Not Reported
Level reading date:	1959-03-18	Feet below surface:	Not Reported
Feet to sea level:	-4.96	Note:	Not Reported

Level reading date:	1958-01-10	Feet below surface:	Not Reported
Feet to sea level:	-4.06	Note:	Not Reported
Level reading date:	1957-09-24	Feet below surface:	Not Reported
Feet to sea level:	-4.44	Note:	Not Reported
Level reading date:	1957-06-27	Feet below surface:	Not Reported
Feet to sea level:	-3.61	Note:	Not Reported
Level reading date:	1957-03-27	Feet below surface:	Not Reported
Feet to sea level:	-3.58	Note:	Not Reported
Level reading date:	1956-12-18	Feet below surface:	Not Reported
Feet to sea level:	-3.19	Note:	Not Reported
Level reading date:	1956-11-29	Feet below surface:	Not Reported
Feet to sea level:	-3.09	Note:	Not Reported
Level reading date:	1956-10-25	Feet below surface:	Not Reported
Feet to sea level:	-3.01	Note:	Not Reported
Level reading date:	1956-10-02	Feet below surface:	Not Reported
Feet to sea level:	-3.06	Note:	Not Reported
Level reading date:	1956-08-02	Feet below surface:	Not Reported
Feet to sea level:	-3.00	Note:	Not Reported
Level reading date:	1956-07-11	Feet below surface:	Not Reported
Feet to sea level:	-2.95	Note:	Not Reported
Level reading date:	1956-06-05	Feet below surface:	Not Reported
Feet to sea level:	-3.05	Note:	Not Reported
Level reading date:	1956-05-15	Feet below surface:	Not Reported
Feet to sea level:	-3.26	Note:	Not Reported
Level reading date:	1956-03-05	Feet below surface:	Not Reported
Feet to sea level:	-3.53	Note:	Not Reported
Level reading date:	1956-02-03	Feet below surface:	Not Reported
Feet to sea level:	-3.69	Note:	Not Reported
Level reading date:	1955-12-22	Feet below surface:	Not Reported
Feet to sea level:	-3.74	Note:	Not Reported
Level reading date:	1955-11-15	Feet below surface:	Not Reported
Feet to sea level:	-4.04	Note:	Not Reported
Level reading date:	1955-10-07	Feet below surface:	Not Reported
Feet to sea level:	-4.61	Note:	Not Reported
Level reading date:	1955-08-25	Feet below surface:	Not Reported
Feet to sea level:	-4.74	Note:	Not Reported
Level reading date:	1955-07-27	Feet below surface:	Not Reported
Feet to sea level:	-4.72	Note:	Not Reported
Level reading date:	1955-06-23	Feet below surface:	Not Reported
Feet to sea level:	-4.43	Note:	Not Reported
Level reading date:	1955-04-26	Feet below surface:	Not Reported
Feet to sea level:	-4.91	Note:	Not Reported

Level reading date:	1955-03-29	Feet below surface:	Not Reported
Feet to sea level:	-5.07	Note:	Not Reported
Level reading date:	1955-02-25	Feet below surface:	Not Reported
Feet to sea level:	-5.33	Note:	Not Reported
Level reading date:	1955-01-25	Feet below surface:	Not Reported
Feet to sea level:	-5.34	Note:	Not Reported
Level reading date:	1954-12-27	Feet below surface:	Not Reported
Feet to sea level:	-5.61	Note:	Not Reported
Level reading date:	1954-06-29	Feet below surface:	Not Reported
Feet to sea level:	-6.25	Note:	Not Reported
Level reading date:	1954-05-27	Feet below surface:	Not Reported
Feet to sea level:	-6.72	Note:	Not Reported
Level reading date:	1954-04-28	Feet below surface:	Not Reported
Feet to sea level:	-6.79	Note:	Not Reported
Level reading date:	1954-03-30	Feet below surface:	Not Reported
Feet to sea level:	-6.87	Note:	Not Reported
Level reading date:	1954-02-25	Feet below surface:	Not Reported
Feet to sea level:	-7.02	Note:	Not Reported
Level reading date:	1954-01-28	Feet below surface:	Not Reported
Feet to sea level:	-7.19	Note:	Not Reported
Level reading date:	1953-12-23	Feet below surface:	Not Reported
Feet to sea level:	-7.15	Note:	Not Reported
Level reading date:	1953-12-02	Feet below surface:	Not Reported
Feet to sea level:	-7.25	Note:	Not Reported
Level reading date:	1953-10-02	Feet below surface:	Not Reported
Feet to sea level:	-7.61	Note:	Not Reported
Level reading date:	1953-08-03	Feet below surface:	Not Reported
Feet to sea level:	-7.45	Note:	Not Reported
Level reading date:	1953-06-23	Feet below surface:	Not Reported
Feet to sea level:	-7.47	Note:	Not Reported
Level reading date:	1953-05-25	Feet below surface:	Not Reported
Feet to sea level:	-7.91	Note:	Not Reported
Level reading date:	1953-04-27	Feet below surface:	Not Reported
Feet to sea level:	-8.26	Note:	Not Reported
Level reading date:	1953-03-24	Feet below surface:	Not Reported
Feet to sea level:	-8.82	Note:	Not Reported
Level reading date:	1953-02-27	Feet below surface:	Not Reported
Feet to sea level:	-9.10	Note:	Not Reported
Level reading date:	1953-02-05	Feet below surface:	Not Reported
Feet to sea level:	-9.37	Note:	Not Reported
Level reading date:	1952-12-24	Feet below surface:	Not Reported
Feet to sea level:	-10.14	Note:	Not Reported

Level reading date:	1952-12-05	Feet below surface:	Not Reported
Feet to sea level:	-10.54	Note:	Not Reported
Level reading date:	1952-11-03	Feet below surface:	Not Reported
Feet to sea level:	-11.13	Note:	Not Reported
Level reading date:	1952-08-25	Feet below surface:	Not Reported
Feet to sea level:	-12.22	Note:	Not Reported
Level reading date:	1952-07-25	Feet below surface:	Not Reported
Feet to sea level:	-12.62	Note:	Not Reported
Level reading date:	1952-06-24	Feet below surface:	Not Reported
Feet to sea level:	-13.11	Note:	Not Reported
Level reading date:	1952-05-27	Feet below surface:	Not Reported
Feet to sea level:	-13.84	Note:	Not Reported
Level reading date:	1952-04-29	Feet below surface:	Not Reported
Feet to sea level:	-14.33	Note:	Not Reported
Level reading date:	1952-03-24	Feet below surface:	Not Reported
Feet to sea level:	-15.09	Note:	Not Reported
Level reading date:	1952-02-20	Feet below surface:	Not Reported
Feet to sea level:	-15.88	Note:	Not Reported
Level reading date:	1952-01-29	Feet below surface:	Not Reported
Feet to sea level:	-16.33	Note:	Not Reported
Level reading date:	1951-12-20	Feet below surface:	Not Reported
Feet to sea level:	-16.98	Note:	Not Reported
Level reading date:	1951-11-28	Feet below surface:	Not Reported
Feet to sea level:	-17.37	Note:	Not Reported
Level reading date:	1951-11-02	Feet below surface:	Not Reported
Feet to sea level:	-17.86	Note:	Not Reported
Level reading date:	1951-09-26	Feet below surface:	Not Reported
Feet to sea level:	-18.29	Note:	Not Reported
Level reading date:	1951-08-28	Feet below surface:	Not Reported
Feet to sea level:	-18.53	Note:	Not Reported
Level reading date:	1951-07-26	Feet below surface:	Not Reported
Feet to sea level:	-18.97	Note:	Not Reported
Level reading date:	1951-06-28	Feet below surface:	Not Reported
Feet to sea level:	-19.39	Note:	Not Reported
Level reading date:	1951-05-29	Feet below surface:	Not Reported
Feet to sea level:	-19.79	Note:	Not Reported
Level reading date:	1951-05-02	Feet below surface:	Not Reported
Feet to sea level:	-20.22	Note:	Not Reported
Level reading date:	1951-03-27	Feet below surface:	Not Reported
Feet to sea level:	-20.97	Note:	Not Reported
Level reading date:	1951-02-26	Feet below surface:	Not Reported
Feet to sea level:	-21.64	Note:	Not Reported

Level reading date:	1951-01-30	Feet below surface:	Not Reported
Feet to sea level:	-22.36	Note:	Not Reported
Level reading date:	1950-12-20	Feet below surface:	Not Reported
Feet to sea level:	-24.01	Note:	Not Reported
Level reading date:	1950-11-28	Feet below surface:	Not Reported
Feet to sea level:	-24.60	Note:	Not Reported
Level reading date:	1950-10-31	Feet below surface:	Not Reported
Feet to sea level:	-24.76	Note:	Not Reported
Level reading date:	1950-09-27	Feet below surface:	Not Reported
Feet to sea level:	-24.78	Note:	Not Reported
Level reading date:	1950-08-29	Feet below surface:	Not Reported
Feet to sea level:	-24.63	Note:	Not Reported
Level reading date:	1950-07-27	Feet below surface:	Not Reported
Feet to sea level:	-24.48	Note:	Not Reported
Level reading date:	1950-06-29	Feet below surface:	Not Reported
Feet to sea level:	-24.52	Note:	Not Reported
Level reading date:	1950-06-05	Feet below surface:	Not Reported
Feet to sea level:	-24.63	Note:	Not Reported
Level reading date:	1950-04-27	Feet below surface:	Not Reported
Feet to sea level:	-24.97	Note:	Not Reported
Level reading date:	1950-03-29	Feet below surface:	Not Reported
Feet to sea level:	-24.90	Note:	Not Reported
Level reading date:	1950-03-01	Feet below surface:	Not Reported
Feet to sea level:	-25.44	Note:	Not Reported
Level reading date:	1950-01-26	Feet below surface:	Not Reported
Feet to sea level:	-25.69	Note:	Not Reported
Level reading date:	1949-12-28	Feet below surface:	Not Reported
Feet to sea level:	-25.78	Note:	Not Reported
Level reading date:	1949-11-28	Feet below surface:	Not Reported
Feet to sea level:	-25.76	Note:	Not Reported
Level reading date:	1949-10-31	Feet below surface:	Not Reported
Feet to sea level:	-25.53	Note:	Not Reported
Level reading date:	1949-09-28	Feet below surface:	Not Reported
Feet to sea level:	-25.59	Note:	Not Reported
Level reading date:	1949-08-31	Feet below surface:	Not Reported
Feet to sea level:	-25.62	Note:	Not Reported
Level reading date:	1949-07-28	Feet below surface:	Not Reported
Feet to sea level:	-25.72	Note:	Not Reported
Level reading date:	1949-06-30	Feet below surface:	Not Reported
Feet to sea level:	-25.89	Note:	Not Reported
Level reading date:	1949-06-01	Feet below surface:	Not Reported
Feet to sea level:	-26.02	Note:	Not Reported

Level reading date:	1949-04-28	Feet below surface:	Not Reported
Feet to sea level:	-26.14	Note:	Not Reported
Level reading date:	1949-04-05	Feet below surface:	Not Reported
Feet to sea level:	-26.39	Note:	Not Reported
Level reading date:	1949-02-23	Feet below surface:	Not Reported
Feet to sea level:	-27.08	Note:	Not Reported
Level reading date:	1949-01-27	Feet below surface:	Not Reported
Feet to sea level:	-27.47	Note:	Not Reported
Level reading date:	1948-12-28	Feet below surface:	Not Reported
Feet to sea level:	-27.87	Note:	Not Reported
Level reading date:	1948-12-14	Feet below surface:	Not Reported
Feet to sea level:	-28.03	Note:	Not Reported
Level reading date:	1948-11-04	Feet below surface:	Not Reported
Feet to sea level:	-28.60	Note:	Not Reported
Level reading date:	1948-10-06	Feet below surface:	Not Reported
Feet to sea level:	-28.94	Note:	Not Reported
Level reading date:	1948-08-30	Feet below surface:	Not Reported
Feet to sea level:	-29.46	Note:	Not Reported
Level reading date:	1948-07-26	Feet below surface:	Not Reported
Feet to sea level:	-30.22	Note:	Not Reported
Level reading date:	1948-06-30	Feet below surface:	Not Reported
Feet to sea level:	-30.77	Note:	Not Reported
Level reading date:	1948-06-02	Feet below surface:	Not Reported
Feet to sea level:	-31.35	Note:	Not Reported
Level reading date:	1948-04-27	Feet below surface:	Not Reported
Feet to sea level:	-32.12	Note:	Not Reported
Level reading date:	1948-03-26	Feet below surface:	Not Reported
Feet to sea level:	-32.84	Note:	Not Reported
Level reading date:	1948-03-02	Feet below surface:	Not Reported
Feet to sea level:	-33.43	Note:	Not Reported
Level reading date:	1948-02-03	Feet below surface:	Not Reported
Feet to sea level:	-34.37	Note:	Not Reported
Level reading date:	1948-01-07	Feet below surface:	Not Reported
Feet to sea level:	-35.55	Note:	Not Reported
Level reading date:	1947-12-17	Feet below surface:	Not Reported
Feet to sea level:	-35.93	Note:	Not Reported
Level reading date:	1947-11-26	Feet below surface:	Not Reported
Feet to sea level:	-36.76	Note:	Not Reported
Level reading date:	1947-11-20	Feet below surface:	Not Reported
Feet to sea level:	-36.87	Note:	Not Reported
Level reading date:	1947-10-31	Feet below surface:	Not Reported
Feet to sea level:	-37.15	Note:	Not Reported

Level reading date:	1947-10-14	Feet below surface:	Not Reported
Feet to sea level:	-37.22	Note:	Not Reported
Level reading date:	1947-10-07	Feet below surface:	Not Reported
Feet to sea level:	-37.17	Note:	Not Reported
Level reading date:	1947-09-30	Feet below surface:	Not Reported
Feet to sea level:	-37.13	Note:	Not Reported
Level reading date:	1947-09-16	Feet below surface:	Not Reported
Feet to sea level:	-37.00	Note:	Not Reported
Level reading date:	1947-08-27	Feet below surface:	Not Reported
Feet to sea level:	-36.56	Note:	Not Reported
Level reading date:	1947-08-13	Feet below surface:	Not Reported
Feet to sea level:	-36.15	Note:	Not Reported
Level reading date:	1947-07-30	Feet below surface:	Not Reported
Feet to sea level:	-35.58	Note:	Not Reported
Level reading date:	1947-07-23	Feet below surface:	Not Reported
Feet to sea level:	-35.29	Note:	Not Reported
Level reading date:	1947-07-16	Feet below surface:	Not Reported
Feet to sea level:	-35.21	Note:	Not Reported
Level reading date:	1947-07-07	Feet below surface:	Not Reported
Feet to sea level:	-35.95	Note:	Not Reported
Level reading date:	1947-07-02	Feet below surface:	Not Reported
Feet to sea level:	-36.46	Note:	Not Reported
Level reading date:	1947-07-01	Feet below surface:	Not Reported
Feet to sea level:	-36.32	Note:	Not Reported
Level reading date:	1947-06-30	Feet below surface:	Not Reported
Feet to sea level:	-36.69	Note:	Not Reported
Level reading date:	1947-06-24	Feet below surface:	Not Reported
Feet to sea level:	-37.12	Note:	Not Reported
Level reading date:	1947-06-20	Feet below surface:	Not Reported
Feet to sea level:	-37.16	Note:	Not Reported
Level reading date:	1947-06-13	Feet below surface:	Not Reported
Feet to sea level:	-37.06	Note:	Not Reported
Level reading date:	1947-06-06	Feet below surface:	Not Reported
Feet to sea level:	-36.95	Note:	Not Reported
Level reading date:	1947-05-29	Feet below surface:	Not Reported
Feet to sea level:	-36.78	Note:	Not Reported
Level reading date:	1947-05-23	Feet below surface:	Not Reported
Feet to sea level:	-36.63	Note:	Not Reported
Level reading date:	1947-05-17	Feet below surface:	Not Reported
Feet to sea level:	-36.47	Note:	Not Reported
Level reading date:	1947-05-16	Feet below surface:	Not Reported
Feet to sea level:	-36.41	Note:	Not Reported

Level reading date:	1947-05-10	Feet below surface:	Not Reported
Feet to sea level:	-35.93	Note:	Not Reported
Level reading date:	1947-05-03	Feet below surface:	Not Reported
Feet to sea level:	-35.89	Note:	Not Reported
Level reading date:	1947-04-26	Feet below surface:	Not Reported
Feet to sea level:	-35.43	Note:	Not Reported
Level reading date:	1947-04-19	Feet below surface:	Not Reported
Feet to sea level:	-35.17	Note:	Not Reported
Level reading date:	1947-04-18	Feet below surface:	Not Reported
Feet to sea level:	-35.09	Note:	Not Reported
Level reading date:	1947-03-29	Feet below surface:	Not Reported
Feet to sea level:	-33.64	Note:	Not Reported
Level reading date:	1947-03-22	Feet below surface:	Not Reported
Feet to sea level:	-33.32	Note:	Not Reported
Level reading date:	1947-03-08	Feet below surface:	Not Reported
Feet to sea level:	-34.08	Note:	Not Reported
Level reading date:	1947-03-01	Feet below surface:	Not Reported
Feet to sea level:	-35.65	Note:	Not Reported
Level reading date:	1947-02-22	Feet below surface:	Not Reported
Feet to sea level:	-36.06	Note:	Not Reported
Level reading date:	1947-02-15	Feet below surface:	Not Reported
Feet to sea level:	-36.93	Note:	Not Reported
Level reading date:	1947-02-08	Feet below surface:	Not Reported
Feet to sea level:	-37.58	Note:	Not Reported
Level reading date:	1947-02-01	Feet below surface:	Not Reported
Feet to sea level:	-38.31	Note:	Not Reported
Level reading date:	1947-01-25	Feet below surface:	Not Reported
Feet to sea level:	-39.01	Note:	Not Reported
Level reading date:	1947-01-18	Feet below surface:	Not Reported
Feet to sea level:	-37.73	Note:	Not Reported
Level reading date:	1947-01-10	Feet below surface:	Not Reported
Feet to sea level:	-37.61	Note:	Not Reported
Level reading date:	1946-10-19	Feet below surface:	Not Reported
Feet to sea level:	-31.90	Note:	Not Reported
Level reading date:	1946-10-12	Feet below surface:	Not Reported
Feet to sea level:	-27.83	Note:	Not Reported
Level reading date:	1946-10-05	Feet below surface:	Not Reported
Feet to sea level:	-20.51	Note:	Not Reported
Level reading date:	1946-09-23	Feet below surface:	Not Reported
Feet to sea level:	-36.25	Note:	Not Reported
Level reading date:	1946-09-16	Feet below surface:	Not Reported
Feet to sea level:	-37.75	Note:	Not Reported

Level reading date:	1946-08-30	Feet below surface:	Not Reported
Feet to sea level:	-38.35	Note:	Not Reported
Level reading date:	1946-08-19	Feet below surface:	Not Reported
Feet to sea level:	-38.17	Note:	Not Reported
Level reading date:	1946-07-30	Feet below surface:	Not Reported
Feet to sea level:	-37.69	Note:	Not Reported
Level reading date:	1946-07-08	Feet below surface:	Not Reported
Feet to sea level:	-37.25	Note:	Not Reported
Level reading date:	1946-06-10	Feet below surface:	Not Reported
Feet to sea level:	-36.63	Note:	Not Reported
Level reading date:	1946-05-27	Feet below surface:	Not Reported
Feet to sea level:	-36.17	Note:	Not Reported
Level reading date:	1946-05-20	Feet below surface:	Not Reported
Feet to sea level:	-35.97	Note:	Not Reported
Level reading date:	1946-05-13	Feet below surface:	Not Reported
Feet to sea level:	-35.55	Note:	Not Reported
Level reading date:	1946-05-06	Feet below surface:	Not Reported
Feet to sea level:	-35.32	Note:	Not Reported
Level reading date:	1946-04-29	Feet below surface:	Not Reported
Feet to sea level:	-35.07	Note:	Not Reported
Level reading date:	1946-04-22	Feet below surface:	Not Reported
Feet to sea level:	-35.31	Note:	Not Reported
Level reading date:	1946-04-15	Feet below surface:	Not Reported
Feet to sea level:	-35.44	Note:	Not Reported
Level reading date:	1946-04-08	Feet below surface:	Not Reported
Feet to sea level:	-35.56	Note:	Not Reported
Level reading date:	1946-04-01	Feet below surface:	Not Reported
Feet to sea level:	-35.67	Note:	Not Reported
Level reading date:	1946-03-25	Feet below surface:	Not Reported
Feet to sea level:	-35.66	Note:	Not Reported
Level reading date:	1946-03-18	Feet below surface:	Not Reported
Feet to sea level:	-35.80	Note:	Not Reported
Level reading date:	1946-03-11	Feet below surface:	Not Reported
Feet to sea level:	-35.79	Note:	Not Reported
Level reading date:	1946-03-04	Feet below surface:	Not Reported
Feet to sea level:	-35.75	Note:	Not Reported
Level reading date:	1946-02-25	Feet below surface:	Not Reported
Feet to sea level:	-35.66	Note:	Not Reported
Level reading date:	1946-02-18	Feet below surface:	Not Reported
Feet to sea level:	-35.67	Note:	Not Reported
Level reading date:	1946-02-11	Feet below surface:	Not Reported
Feet to sea level:	-35.61	Note:	Not Reported

Level reading date:	1946-01-08	Feet below surface:	Not Reported
Feet to sea level:	-35.07	Note:	Not Reported
Level reading date:	1945-12-03	Feet below surface:	Not Reported
Feet to sea level:	-34.78	Note:	Not Reported
Level reading date:	1945-11-06	Feet below surface:	Not Reported
Feet to sea level:	-34.30	Note:	Not Reported
Level reading date:	1945-09-28	Feet below surface:	Not Reported
Feet to sea level:	-33.23	Note:	Not Reported
Level reading date:	1945-09-12	Feet below surface:	Not Reported
Feet to sea level:	-32.54	Note:	Not Reported
Level reading date:	1945-08-08	Feet below surface:	Not Reported
Feet to sea level:	-30.12	Note:	Not Reported
Level reading date:	1945-07-23	Feet below surface:	Not Reported
Feet to sea level:	-30.27	Note:	Not Reported
Level reading date:	1945-07-03	Feet below surface:	Not Reported
Feet to sea level:	-30.41	Note:	Not Reported
Level reading date:	1945-06-04	Feet below surface:	Not Reported
Feet to sea level:	-30.46	Note:	Not Reported

E16
NNW
1/4 - 1/2 Mile
Lower

NY WELLS **NYREG1000000037**

Well Number:	K003398	Owner:	Brooklyn Union Gas
Well Depth:	30	Diameter:	2
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

E17
NNW
1/4 - 1/2 Mile
Lower

NY WELLS **NYREG1000000036**

Well Number:	K003397	Owner:	Brooklyn Union Gas
Well Depth:	30	Diameter:	2
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

E18
NNW
1/4 - 1/2 Mile
Lower

NY WELLS **NYREG1000000038**

Well Number:	K003399	Owner:	Brooklyn Union Gas
Well Depth:	30	Diameter:	2
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E19
NNW
1/4 - 1/2 Mile
Lower

NY WELLS **NYREG1000000043**

Well Number:	K003404	Owner:	Brooklyn Union
Well Depth:	20	Diameter:	4
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

E20
NNW
1/4 - 1/2 Mile
Lower

NY WELLS **NYREG1000000042**

Well Number:	K003403	Owner:	Brooklyn Union
Well Depth:	20	Diameter:	4
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

21
SSW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000829247**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 3111. 1	Type:	Well
Description:	0001	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Glacial Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	95
Well Hole Depth Units:	ft		

F22
SSW
1/4 - 1/2 Mile
Higher

NY WELLS **NYREG1000000185**

Well Number:	K003535	Owner:	Rapid Ready Mix Corporation
Well Depth:	80	Diameter:	6
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F23
SSW
1/2 - 1 Mile
Higher

NY WELLS **NYREG1000000188**

Well Number:	K003538	Owner:	North Shore Ready Mix
Well Depth:	100	Diameter:	6
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

24
WNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829597**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 677. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	215	Well Hole Depth Units:	ft

25
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000829202**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 2568. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	100	Well Hole Depth Units:	ft

G26
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829232**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 893. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	118	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G27
SW
1/2 - 1 Mile
Higher

NY WELLS **NYREG1000000018**

Well Number:	K003120D	Owner:	Bart, Alvin
Well Depth:	76	Diameter:	8
Casing Length:	56	Screen Diameter:	6
Screen Length:	20		

28
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000829791**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	Q 436. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	217	Well Hole Depth Units:	ft

G29
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829233**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 955. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	72	Well Hole Depth Units:	ft

30
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829234**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1130. 1	Type:	Well
Description:	1301	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	89	Well Hole Depth Units:	ft

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

31
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829116**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 894. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	282	Well Hole Depth Units:	ft

H32
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000829101**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1576. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	68	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	22	Level reading date:	1969-04-23
Feet below surface:	Not Reported	Feet to sea level:	2.13
Note:	Not Reported		

Level reading date:	1968-11-06	Feet below surface:	Not Reported
Feet to sea level:	-1.59	Note:	Not Reported
Level reading date:	1968-04-22	Feet below surface:	Not Reported
Feet to sea level:	2.68	Note:	Not Reported
Level reading date:	1967-10-20	Feet below surface:	Not Reported
Feet to sea level:	1.81	Note:	Not Reported
Level reading date:	1967-03-28	Feet below surface:	Not Reported
Feet to sea level:	1.37	Note:	Not Reported
Level reading date:	1966-10-24	Feet below surface:	Not Reported
Feet to sea level:	-0.39	Note:	Not Reported
Level reading date:	1966-05-03	Feet below surface:	Not Reported
Feet to sea level:	1.92	Note:	Not Reported
Level reading date:	1965-09-15	Feet below surface:	Not Reported
Feet to sea level:	-0.04	Note:	Not Reported
Level reading date:	1965-05-03	Feet below surface:	Not Reported
Feet to sea level:	0.89	Note:	Not Reported

Level reading date:	1964-10-30	Feet below surface:	Not Reported
Feet to sea level:	0.55	Note:	Not Reported
Level reading date:	1964-04-27	Feet below surface:	Not Reported
Feet to sea level:	2.46	Note:	Not Reported
Level reading date:	1963-04-11	Feet below surface:	Not Reported
Feet to sea level:	2.69	Note:	Not Reported
Level reading date:	1962-04-26	Feet below surface:	Not Reported
Feet to sea level:	2.64	Note:	Not Reported
Level reading date:	1961-12-27	Feet below surface:	Not Reported
Feet to sea level:	1.13	Note:	Not Reported
Level reading date:	1961-01-09	Feet below surface:	Not Reported
Feet to sea level:	-0.69	Note:	Not Reported
Level reading date:	1960-01-14	Feet below surface:	Not Reported
Feet to sea level:	-0.81	Note:	Not Reported
Level reading date:	1959-03-18	Feet below surface:	Not Reported
Feet to sea level:	-1.83	Note:	Not Reported
Level reading date:	1957-03-15	Feet below surface:	Not Reported
Feet to sea level:	-1.50	Note:	Not Reported
Level reading date:	1953-01-13	Feet below surface:	Not Reported
Feet to sea level:	-8.08	Note:	Not Reported
Level reading date:	1952-01-02	Feet below surface:	Not Reported
Feet to sea level:	-14.55	Note:	Not Reported
Level reading date:	1950-12-12	Feet below surface:	Not Reported
Feet to sea level:	-17.74	Note:	Not Reported
Level reading date:	1949-12-16	Feet below surface:	Not Reported
Feet to sea level:	-19.23	Note:	Not Reported

I33
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829273**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1490. 1	Type:	Well
Description:	2301	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	135	Well Hole Depth Units:	ft

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I34
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829261**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 37. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	130	Well Hole Depth Units:	ft

H35
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000829082**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1575. 1	Type:	Well
Description:	3401	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	85	Well Hole Depth Units:	ft

36
WNW
1/2 - 1 Mile
Higher

NY WELLS **NYREG1000000142**

Well Number:	K003496	Owner:	Lees Farm
Well Depth:	85	Diameter:	4
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

J37
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829385**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1283. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	240	Well Hole Depth Units:	ft

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J38
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829386**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 724. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	137	Well Hole Depth Units:	ft

39
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829063**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 87. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	160	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	184	Level reading date:	1941-05-31
Feet below surface:	Not Reported	Feet to sea level:	-9.41
Note:	Not Reported		

Level reading date:	1941-05-24	Feet below surface:	Not Reported
Feet to sea level:	-9.39	Note:	Not Reported
Level reading date:	1941-05-17	Feet below surface:	Not Reported
Feet to sea level:	-9.36	Note:	Not Reported
Level reading date:	1941-05-10	Feet below surface:	Not Reported
Feet to sea level:	-9.36	Note:	Not Reported
Level reading date:	1941-05-03	Feet below surface:	Not Reported
Feet to sea level:	-9.32	Note:	Not Reported
Level reading date:	1941-04-26	Feet below surface:	Not Reported
Feet to sea level:	-9.30	Note:	Not Reported
Level reading date:	1941-04-19	Feet below surface:	Not Reported
Feet to sea level:	-9.27	Note:	Not Reported
Level reading date:	1941-04-12	Feet below surface:	Not Reported
Feet to sea level:	-9.27	Note:	Not Reported
Level reading date:	1941-04-05	Feet below surface:	Not Reported
Feet to sea level:	-9.25	Note:	Not Reported

Level reading date:	1941-03-29	Feet below surface:	Not Reported
Feet to sea level:	-9.25	Note:	Not Reported
Level reading date:	1941-03-22	Feet below surface:	Not Reported
Feet to sea level:	-9.24	Note:	Not Reported
Level reading date:	1941-03-15	Feet below surface:	Not Reported
Feet to sea level:	-9.24	Note:	Not Reported
Level reading date:	1941-03-08	Feet below surface:	Not Reported
Feet to sea level:	-9.22	Note:	Not Reported
Level reading date:	1941-03-01	Feet below surface:	Not Reported
Feet to sea level:	-9.22	Note:	Not Reported
Level reading date:	1941-02-22	Feet below surface:	Not Reported
Feet to sea level:	-9.22	Note:	Not Reported
Level reading date:	1941-02-15	Feet below surface:	Not Reported
Feet to sea level:	-9.22	Note:	Not Reported
Level reading date:	1941-02-08	Feet below surface:	Not Reported
Feet to sea level:	-9.22	Note:	Not Reported
Level reading date:	1941-02-01	Feet below surface:	Not Reported
Feet to sea level:	-9.23	Note:	Not Reported
Level reading date:	1941-01-25	Feet below surface:	Not Reported
Feet to sea level:	-9.23	Note:	Not Reported
Level reading date:	1941-01-18	Feet below surface:	Not Reported
Feet to sea level:	-9.24	Note:	Not Reported
Level reading date:	1941-01-11	Feet below surface:	Not Reported
Feet to sea level:	-9.24	Note:	Not Reported
Level reading date:	1941-01-04	Feet below surface:	Not Reported
Feet to sea level:	-9.26	Note:	Not Reported
Level reading date:	1940-12-28	Feet below surface:	Not Reported
Feet to sea level:	-9.25	Note:	Not Reported
Level reading date:	1940-12-21	Feet below surface:	Not Reported
Feet to sea level:	-9.24	Note:	Not Reported
Level reading date:	1940-12-14	Feet below surface:	Not Reported
Feet to sea level:	-9.20	Note:	Not Reported
Level reading date:	1940-12-07	Feet below surface:	Not Reported
Feet to sea level:	-9.19	Note:	Not Reported
Level reading date:	1940-11-30	Feet below surface:	Not Reported
Feet to sea level:	-9.16	Note:	Not Reported
Level reading date:	1940-11-23	Feet below surface:	Not Reported
Feet to sea level:	-9.13	Note:	Not Reported
Level reading date:	1940-11-16	Feet below surface:	Not Reported
Feet to sea level:	-9.13	Note:	Not Reported
Level reading date:	1940-11-09	Feet below surface:	Not Reported
Feet to sea level:	-9.10	Note:	Not Reported

Level reading date:	1940-11-02	Feet below surface:	Not Reported
Feet to sea level:	-9.05	Note:	Not Reported
Level reading date:	1940-10-26	Feet below surface:	Not Reported
Feet to sea level:	-9.03	Note:	Not Reported
Level reading date:	1940-10-19	Feet below surface:	Not Reported
Feet to sea level:	-8.98	Note:	Not Reported
Level reading date:	1940-10-12	Feet below surface:	Not Reported
Feet to sea level:	-8.92	Note:	Not Reported
Level reading date:	1940-10-05	Feet below surface:	Not Reported
Feet to sea level:	-8.91	Note:	Not Reported
Level reading date:	1940-09-28	Feet below surface:	Not Reported
Feet to sea level:	-8.88	Note:	Not Reported
Level reading date:	1940-09-21	Feet below surface:	Not Reported
Feet to sea level:	-8.82	Note:	Not Reported
Level reading date:	1940-09-14	Feet below surface:	Not Reported
Feet to sea level:	-8.74	Note:	Not Reported
Level reading date:	1940-09-07	Feet below surface:	Not Reported
Feet to sea level:	-8.67	Note:	Not Reported
Level reading date:	1940-08-31	Feet below surface:	Not Reported
Feet to sea level:	-8.51	Note:	Not Reported
Level reading date:	1940-08-24	Feet below surface:	Not Reported
Feet to sea level:	-8.55	Note:	Not Reported
Level reading date:	1940-08-17	Feet below surface:	Not Reported
Feet to sea level:	-8.44	Note:	Not Reported
Level reading date:	1940-08-10	Feet below surface:	Not Reported
Feet to sea level:	-8.50	Note:	Not Reported
Level reading date:	1940-08-03	Feet below surface:	Not Reported
Feet to sea level:	-8.34	Note:	Not Reported
Level reading date:	1940-07-20	Feet below surface:	Not Reported
Feet to sea level:	-8.86	Note:	Not Reported
Level reading date:	1940-07-13	Feet below surface:	Not Reported
Feet to sea level:	-8.70	Note:	Not Reported
Level reading date:	1940-07-06	Feet below surface:	Not Reported
Feet to sea level:	-8.72	Note:	Not Reported
Level reading date:	1940-06-29	Feet below surface:	Not Reported
Feet to sea level:	-7.98	Note:	Not Reported
Level reading date:	1940-06-22	Feet below surface:	Not Reported
Feet to sea level:	-8.45	Note:	Not Reported
Level reading date:	1940-06-15	Feet below surface:	Not Reported
Feet to sea level:	-8.10	Note:	Not Reported
Level reading date:	1940-06-08	Feet below surface:	Not Reported
Feet to sea level:	-7.91	Note:	Not Reported

Level reading date:	1940-06-01	Feet below surface:	Not Reported
Feet to sea level:	-7.83	Note:	Not Reported
Level reading date:	1940-05-25	Feet below surface:	Not Reported
Feet to sea level:	-7.79	Note:	Not Reported
Level reading date:	1940-05-18	Feet below surface:	Not Reported
Feet to sea level:	-7.78	Note:	Not Reported
Level reading date:	1940-05-11	Feet below surface:	Not Reported
Feet to sea level:	-7.77	Note:	Not Reported
Level reading date:	1940-05-04	Feet below surface:	Not Reported
Feet to sea level:	-7.75	Note:	Not Reported
Level reading date:	1940-04-27	Feet below surface:	Not Reported
Feet to sea level:	-7.73	Note:	Not Reported
Level reading date:	1940-04-20	Feet below surface:	Not Reported
Feet to sea level:	-7.72	Note:	Not Reported
Level reading date:	1940-04-13	Feet below surface:	Not Reported
Feet to sea level:	-7.69	Note:	Not Reported
Level reading date:	1940-04-06	Feet below surface:	Not Reported
Feet to sea level:	-7.60	Note:	Not Reported
Level reading date:	1940-03-30	Feet below surface:	Not Reported
Feet to sea level:	-7.69	Note:	Not Reported
Level reading date:	1940-03-23	Feet below surface:	Not Reported
Feet to sea level:	-7.71	Note:	Not Reported
Level reading date:	1940-03-16	Feet below surface:	Not Reported
Feet to sea level:	-7.69	Note:	Not Reported
Level reading date:	1940-03-09	Feet below surface:	Not Reported
Feet to sea level:	-7.71	Note:	Not Reported
Level reading date:	1940-03-02	Feet below surface:	Not Reported
Feet to sea level:	-7.68	Note:	Not Reported
Level reading date:	1940-02-24	Feet below surface:	Not Reported
Feet to sea level:	-7.71	Note:	Not Reported
Level reading date:	1940-02-17	Feet below surface:	Not Reported
Feet to sea level:	-7.69	Note:	Not Reported
Level reading date:	1940-02-10	Feet below surface:	Not Reported
Feet to sea level:	-8.44	Note:	Not Reported
Level reading date:	1940-02-03	Feet below surface:	Not Reported
Feet to sea level:	-8.47	Note:	Not Reported
Level reading date:	1940-01-27	Feet below surface:	Not Reported
Feet to sea level:	-8.37	Note:	Not Reported
Level reading date:	1940-01-20	Feet below surface:	Not Reported
Feet to sea level:	-8.43	Note:	Not Reported
Level reading date:	1940-01-13	Feet below surface:	Not Reported
Feet to sea level:	-8.51	Note:	Not Reported

Level reading date:	1940-01-06	Feet below surface:	Not Reported
Feet to sea level:	-8.73	Note:	Not Reported
Level reading date:	1939-12-30	Feet below surface:	Not Reported
Feet to sea level:	-8.58	Note:	Not Reported
Level reading date:	1939-12-23	Feet below surface:	Not Reported
Feet to sea level:	-8.73	Note:	Not Reported
Level reading date:	1939-12-16	Feet below surface:	Not Reported
Feet to sea level:	-8.77	Note:	Not Reported
Level reading date:	1939-12-09	Feet below surface:	Not Reported
Feet to sea level:	-8.56	Note:	Not Reported
Level reading date:	1939-12-02	Feet below surface:	Not Reported
Feet to sea level:	-8.70	Note:	Not Reported
Level reading date:	1939-11-25	Feet below surface:	Not Reported
Feet to sea level:	-8.92	Note:	Not Reported
Level reading date:	1939-11-18	Feet below surface:	Not Reported
Feet to sea level:	-9.02	Note:	Not Reported
Level reading date:	1939-11-11	Feet below surface:	Not Reported
Feet to sea level:	-8.91	Note:	Not Reported
Level reading date:	1939-11-04	Feet below surface:	Not Reported
Feet to sea level:	-8.93	Note:	Not Reported
Level reading date:	1939-10-28	Feet below surface:	Not Reported
Feet to sea level:	-8.98	Note:	Not Reported
Level reading date:	1939-10-21	Feet below surface:	Not Reported
Feet to sea level:	-8.92	Note:	Not Reported
Level reading date:	1939-10-14	Feet below surface:	Not Reported
Feet to sea level:	-8.98	Note:	Not Reported
Level reading date:	1939-10-07	Feet below surface:	Not Reported
Feet to sea level:	-8.82	Note:	Not Reported
Level reading date:	1939-09-30	Feet below surface:	Not Reported
Feet to sea level:	-8.87	Note:	Not Reported
Level reading date:	1939-09-23	Feet below surface:	Not Reported
Feet to sea level:	-7.99	Note:	Not Reported
Level reading date:	1939-09-16	Feet below surface:	Not Reported
Feet to sea level:	-7.92	Note:	Not Reported
Level reading date:	1939-09-08	Feet below surface:	Not Reported
Feet to sea level:	-7.87	Note:	Not Reported
Level reading date:	1939-09-01	Feet below surface:	Not Reported
Feet to sea level:	-7.82	Note:	Not Reported
Level reading date:	1939-08-25	Feet below surface:	Not Reported
Feet to sea level:	-7.76	Note:	Not Reported
Level reading date:	1939-08-18	Feet below surface:	Not Reported
Feet to sea level:	-7.70	Note:	Not Reported

Level reading date:	1939-08-11	Feet below surface:	Not Reported
Feet to sea level:	-7.63	Note:	Not Reported
Level reading date:	1939-08-04	Feet below surface:	Not Reported
Feet to sea level:	-7.60	Note:	Not Reported
Level reading date:	1939-07-28	Feet below surface:	Not Reported
Feet to sea level:	-7.53	Note:	Not Reported
Level reading date:	1939-07-07	Feet below surface:	Not Reported
Feet to sea level:	-7.33	Note:	Not Reported
Level reading date:	1939-06-30	Feet below surface:	Not Reported
Feet to sea level:	-7.33	Note:	Not Reported
Level reading date:	1939-06-23	Feet below surface:	Not Reported
Feet to sea level:	-7.33	Note:	Not Reported
Level reading date:	1939-06-16	Feet below surface:	Not Reported
Feet to sea level:	-7.36	Note:	Not Reported
Level reading date:	1939-06-09	Feet below surface:	Not Reported
Feet to sea level:	-7.38	Note:	Not Reported
Level reading date:	1939-06-02	Feet below surface:	Not Reported
Feet to sea level:	-7.39	Note:	Not Reported
Level reading date:	1939-05-26	Feet below surface:	Not Reported
Feet to sea level:	-7.41	Note:	Not Reported
Level reading date:	1939-05-19	Feet below surface:	Not Reported
Feet to sea level:	-7.45	Note:	Not Reported
Level reading date:	1939-05-12	Feet below surface:	Not Reported
Feet to sea level:	-7.48	Note:	Not Reported
Level reading date:	1939-05-05	Feet below surface:	Not Reported
Feet to sea level:	-7.46	Note:	Not Reported
Level reading date:	1939-04-28	Feet below surface:	Not Reported
Feet to sea level:	-7.48	Note:	Not Reported
Level reading date:	1939-04-21	Feet below surface:	Not Reported
Feet to sea level:	-7.48	Note:	Not Reported
Level reading date:	1939-04-15	Feet below surface:	Not Reported
Feet to sea level:	-7.50	Note:	Not Reported
Level reading date:	1939-04-08	Feet below surface:	Not Reported
Feet to sea level:	-7.52	Note:	Not Reported
Level reading date:	1939-03-31	Feet below surface:	Not Reported
Feet to sea level:	-7.61	Note:	Not Reported
Level reading date:	1939-03-24	Feet below surface:	Not Reported
Feet to sea level:	-7.69	Note:	Not Reported
Level reading date:	1939-03-17	Feet below surface:	Not Reported
Feet to sea level:	-7.69	Note:	Not Reported
Level reading date:	1939-03-10	Feet below surface:	Not Reported
Feet to sea level:	-7.63	Note:	Not Reported

Level reading date:	1939-03-03	Feet below surface:	Not Reported
Feet to sea level:	-7.92	Note:	Not Reported
Level reading date:	1939-02-24	Feet below surface:	Not Reported
Feet to sea level:	-7.70	Note:	Not Reported
Level reading date:	1939-02-17	Feet below surface:	Not Reported
Feet to sea level:	-7.72	Note:	Not Reported
Level reading date:	1939-02-10	Feet below surface:	Not Reported
Feet to sea level:	-7.74	Note:	Not Reported
Level reading date:	1939-02-03	Feet below surface:	Not Reported
Feet to sea level:	-7.79	Note:	Not Reported
Level reading date:	1939-01-27	Feet below surface:	Not Reported
Feet to sea level:	-7.85	Note:	Not Reported
Level reading date:	1939-01-20	Feet below surface:	Not Reported
Feet to sea level:	-7.86	Note:	Not Reported
Level reading date:	1939-01-13	Feet below surface:	Not Reported
Feet to sea level:	-7.89	Note:	Not Reported
Level reading date:	1939-01-06	Feet below surface:	Not Reported
Feet to sea level:	-7.93	Note:	Not Reported
Level reading date:	1938-12-30	Feet below surface:	Not Reported
Feet to sea level:	-7.95	Note:	Not Reported
Level reading date:	1938-12-23	Feet below surface:	Not Reported
Feet to sea level:	-8.00	Note:	Not Reported
Level reading date:	1938-12-16	Feet below surface:	Not Reported
Feet to sea level:	-8.03	Note:	Not Reported
Level reading date:	1938-12-09	Feet below surface:	Not Reported
Feet to sea level:	-8.07	Note:	Not Reported
Level reading date:	1938-12-02	Feet below surface:	Not Reported
Feet to sea level:	-8.13	Note:	Not Reported
Level reading date:	1938-11-25	Feet below surface:	Not Reported
Feet to sea level:	-8.13	Note:	Not Reported
Level reading date:	1938-11-18	Feet below surface:	Not Reported
Feet to sea level:	-8.17	Note:	Not Reported
Level reading date:	1938-11-11	Feet below surface:	Not Reported
Feet to sea level:	-8.16	Note:	Not Reported
Level reading date:	1938-11-04	Feet below surface:	Not Reported
Feet to sea level:	-8.21	Note:	Not Reported
Level reading date:	1938-10-28	Feet below surface:	Not Reported
Feet to sea level:	-8.22	Note:	Not Reported
Level reading date:	1938-10-21	Feet below surface:	Not Reported
Feet to sea level:	-8.24	Note:	Not Reported
Level reading date:	1938-10-14	Feet below surface:	Not Reported
Feet to sea level:	-8.27	Note:	Not Reported

Level reading date:	1938-10-07	Feet below surface:	Not Reported
Feet to sea level:	-8.29	Note:	Not Reported
Level reading date:	1938-09-30	Feet below surface:	Not Reported
Feet to sea level:	-8.33	Note:	Not Reported
Level reading date:	1938-09-23	Feet below surface:	Not Reported
Feet to sea level:	-8.36	Note:	Not Reported
Level reading date:	1938-09-16	Feet below surface:	Not Reported
Feet to sea level:	-8.38	Note:	Not Reported
Level reading date:	1938-09-09	Feet below surface:	Not Reported
Feet to sea level:	-8.36	Note:	Not Reported
Level reading date:	1938-09-02	Feet below surface:	Not Reported
Feet to sea level:	-8.34	Note:	Not Reported
Level reading date:	1938-08-26	Feet below surface:	Not Reported
Feet to sea level:	-8.28	Note:	Not Reported
Level reading date:	1938-08-19	Feet below surface:	Not Reported
Feet to sea level:	-8.26	Note:	Not Reported
Level reading date:	1938-08-12	Feet below surface:	Not Reported
Feet to sea level:	-8.22	Note:	Not Reported
Level reading date:	1938-08-05	Feet below surface:	Not Reported
Feet to sea level:	-8.18	Note:	Not Reported
Level reading date:	1938-07-29	Feet below surface:	Not Reported
Feet to sea level:	-8.13	Note:	Not Reported
Level reading date:	1938-07-22	Feet below surface:	Not Reported
Feet to sea level:	-8.08	Note:	Not Reported
Level reading date:	1938-07-15	Feet below surface:	Not Reported
Feet to sea level:	-8.08	Note:	Not Reported
Level reading date:	1938-07-08	Feet below surface:	Not Reported
Feet to sea level:	-8.00	Note:	Not Reported
Level reading date:	1938-07-01	Feet below surface:	Not Reported
Feet to sea level:	-7.96	Note:	Not Reported
Level reading date:	1938-06-25	Feet below surface:	Not Reported
Feet to sea level:	-7.93	Note:	Not Reported
Level reading date:	1938-06-18	Feet below surface:	Not Reported
Feet to sea level:	-7.86	Note:	Not Reported
Level reading date:	1938-06-11	Feet below surface:	Not Reported
Feet to sea level:	-7.83	Note:	Not Reported
Level reading date:	1938-06-04	Feet below surface:	Not Reported
Feet to sea level:	-7.82	Note:	Not Reported
Level reading date:	1938-05-28	Feet below surface:	Not Reported
Feet to sea level:	-7.77	Note:	Not Reported
Level reading date:	1938-05-21	Feet below surface:	Not Reported
Feet to sea level:	-7.76	Note:	Not Reported

Level reading date:	1938-05-14	Feet below surface:	Not Reported
Feet to sea level:	-7.74	Note:	Not Reported
Level reading date:	1938-05-07	Feet below surface:	Not Reported
Feet to sea level:	-7.74	Note:	Not Reported
Level reading date:	1938-04-30	Feet below surface:	Not Reported
Feet to sea level:	-7.72	Note:	Not Reported
Level reading date:	1938-04-23	Feet below surface:	Not Reported
Feet to sea level:	-7.71	Note:	Not Reported
Level reading date:	1938-04-16	Feet below surface:	Not Reported
Feet to sea level:	-7.68	Note:	Not Reported
Level reading date:	1938-04-09	Feet below surface:	Not Reported
Feet to sea level:	-7.66	Note:	Not Reported
Level reading date:	1938-04-02	Feet below surface:	Not Reported
Feet to sea level:	-7.67	Note:	Not Reported
Level reading date:	1938-03-26	Feet below surface:	Not Reported
Feet to sea level:	-7.67	Note:	Not Reported
Level reading date:	1938-03-19	Feet below surface:	Not Reported
Feet to sea level:	-7.69	Note:	Not Reported
Level reading date:	1938-03-12	Feet below surface:	Not Reported
Feet to sea level:	-7.71	Note:	Not Reported
Level reading date:	1938-03-05	Feet below surface:	Not Reported
Feet to sea level:	-7.73	Note:	Not Reported
Level reading date:	1938-02-26	Feet below surface:	Not Reported
Feet to sea level:	-7.76	Note:	Not Reported
Level reading date:	1938-02-19	Feet below surface:	Not Reported
Feet to sea level:	-7.79	Note:	Not Reported
Level reading date:	1938-02-12	Feet below surface:	Not Reported
Feet to sea level:	-7.83	Note:	Not Reported
Level reading date:	1938-02-04	Feet below surface:	Not Reported
Feet to sea level:	-7.84	Note:	Not Reported
Level reading date:	1938-01-28	Feet below surface:	Not Reported
Feet to sea level:	-7.89	Note:	Not Reported
Level reading date:	1938-01-21	Feet below surface:	Not Reported
Feet to sea level:	-7.91	Note:	Not Reported
Level reading date:	1938-01-14	Feet below surface:	Not Reported
Feet to sea level:	-7.93	Note:	Not Reported
Level reading date:	1938-01-07	Feet below surface:	Not Reported
Feet to sea level:	-7.99	Note:	Not Reported
Level reading date:	1937-12-31	Feet below surface:	Not Reported
Feet to sea level:	-8.02	Note:	Not Reported
Level reading date:	1937-12-24	Feet below surface:	Not Reported
Feet to sea level:	-8.04	Note:	Not Reported

Level reading date:	1937-12-18	Feet below surface:	Not Reported
Feet to sea level:	-8.06	Note:	Not Reported
Level reading date:	1937-12-11	Feet below surface:	Not Reported
Feet to sea level:	-8.13	Note:	Not Reported
Level reading date:	1937-12-04	Feet below surface:	Not Reported
Feet to sea level:	-8.13	Note:	Not Reported
Level reading date:	1937-11-27	Feet below surface:	Not Reported
Feet to sea level:	-8.18	Note:	Not Reported
Level reading date:	1937-11-20	Feet below surface:	Not Reported
Feet to sea level:	-8.23	Note:	Not Reported
Level reading date:	1937-11-13	Feet below surface:	Not Reported
Feet to sea level:	-8.23	Note:	Not Reported
Level reading date:	1937-11-08	Feet below surface:	Not Reported
Feet to sea level:	-8.25	Note:	Not Reported

40
West
1/2 - 1 Mile
Higher

FED USGS **USGS40000829528**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 678. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	221	Well Hole Depth Units:	ft

41
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829291**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 426. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	140	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K42
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829052**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 36. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Glacial Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	115
Well Hole Depth Units:	ft		

43
NNW
1/2 - 1 Mile
Higher

NY WELLS **NYREG1000000104**

Well Number:	K003459	Owner:	City Recycling
Well Depth:	60	Diameter:	4
Casing Length:	0	Screen Diameter:	0
Screen Length:	0		

L44
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000829000**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1031. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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K45
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829031**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1153. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Glacial Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported

Well Depth Units:	Not Reported	Well Hole Depth:	103
Well Hole Depth Units:	ft		

K46
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829032**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1273. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	275	Well Hole Depth Units:	ft

47
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40000829962**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	Q 438. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	208	Well Hole Depth Units:	ft

48
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829001**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1336. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	163	Well Hole Depth Units:	ft

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

49
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000829883**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	Q 437. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	260	Well Hole Depth Units:	ft

M50
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829262**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 2533. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	92	Well Hole Depth Units:	ft

L51
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000828957**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 887. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	125	Well Hole Depth Units:	ft

N52
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829002**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 2136. 1	Type:	Well
Description:	1001	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	112	Well Hole Depth Units:	ft

N53
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829003**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 236. 1	Type:	Well
Description:	1008	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	130	Well Depth Units:	ft
Well Hole Depth:	130	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	52	Level reading date:	1954-12-17
Feet below surface:	Not Reported	Feet to sea level:	-8.30
Note:	Not Reported		

Level reading date:	1954-06-29	Feet below surface:	Not Reported
Feet to sea level:	-9.31	Note:	Not Reported
Level reading date:	1954-05-27	Feet below surface:	Not Reported
Feet to sea level:	-8.45	Note:	Not Reported
Level reading date:	1954-04-28	Feet below surface:	Not Reported
Feet to sea level:	-10.08	Note:	Not Reported
Level reading date:	1954-03-30	Feet below surface:	Not Reported
Feet to sea level:	-9.85	Note:	Not Reported
Level reading date:	1954-02-25	Feet below surface:	Not Reported
Feet to sea level:	-9.49	Note:	Not Reported
Level reading date:	1954-01-28	Feet below surface:	Not Reported
Feet to sea level:	-10.11	Note:	Not Reported
Level reading date:	1953-12-23	Feet below surface:	Not Reported
Feet to sea level:	-10.76	Note:	Not Reported
Level reading date:	1953-12-02	Feet below surface:	Not Reported
Feet to sea level:	-10.78	Note:	Not Reported
Level reading date:	1953-10-28	Feet below surface:	Not Reported
Feet to sea level:	-10.03	Note:	Not Reported
Level reading date:	1953-10-02	Feet below surface:	Not Reported
Feet to sea level:	-11.58	Note:	Not Reported
Level reading date:	1953-08-28	Feet below surface:	Not Reported
Feet to sea level:	-11.23	Note:	Not Reported
Level reading date:	1953-08-03	Feet below surface:	Not Reported

Feet to sea level:	-11.25	Note:	Not Reported
Level reading date:	1953-06-24	Feet below surface:	Not Reported
Feet to sea level:	-10.48	Note:	Not Reported
Level reading date:	1953-05-25	Feet below surface:	Not Reported
Feet to sea level:	-10.59	Note:	Not Reported
Level reading date:	1953-04-27	Feet below surface:	Not Reported
Feet to sea level:	-11.85	Note:	Not Reported
Level reading date:	1953-03-24	Feet below surface:	Not Reported
Feet to sea level:	-12.38	Note:	Not Reported
Level reading date:	1953-02-27	Feet below surface:	Not Reported
Feet to sea level:	-12.18	Note:	Not Reported
Level reading date:	1953-02-05	Feet below surface:	Not Reported
Feet to sea level:	-12.68	Note:	Not Reported
Level reading date:	1952-12-24	Feet below surface:	Not Reported
Feet to sea level:	-12.74	Note:	Not Reported
Level reading date:	1952-12-05	Feet below surface:	Not Reported
Feet to sea level:	-12.60	Note:	Not Reported
Level reading date:	1952-11-03	Feet below surface:	Not Reported
Feet to sea level:	-13.70	Note:	Not Reported
Level reading date:	1952-09-23	Feet below surface:	Not Reported
Feet to sea level:	-16.95	Note:	Not Reported
Level reading date:	1952-08-25	Feet below surface:	Not Reported
Feet to sea level:	-16.73	Note:	Not Reported
Level reading date:	1952-07-23	Feet below surface:	Not Reported
Feet to sea level:	-17.79	Note:	Not Reported
Level reading date:	1952-06-24	Feet below surface:	Not Reported
Feet to sea level:	-17.05	Note:	Not Reported
Level reading date:	1952-05-27	Feet below surface:	Not Reported
Feet to sea level:	-17.69	Note:	Not Reported
Level reading date:	1952-04-29	Feet below surface:	Not Reported
Feet to sea level:	-19.03	Note:	Not Reported
Level reading date:	1952-03-24	Feet below surface:	Not Reported
Feet to sea level:	-19.20	Note:	Not Reported
Level reading date:	1952-02-20	Feet below surface:	Not Reported
Feet to sea level:	-20.10	Note:	Not Reported
Level reading date:	1952-01-29	Feet below surface:	Not Reported
Feet to sea level:	-20.88	Note:	Not Reported
Level reading date:	1951-12-20	Feet below surface:	Not Reported
Feet to sea level:	-22.55	Note:	Not Reported
Level reading date:	1951-11-28	Feet below surface:	Not Reported
Feet to sea level:	-22.59	Note:	Not Reported

Level reading date:	1951-09-26	Feet below surface:	Not Reported
Feet to sea level:	-24.85	Note:	Not Reported
Level reading date:	1951-08-28	Feet below surface:	Not Reported
Feet to sea level:	-25.66	Note:	Not Reported
Level reading date:	1951-07-26	Feet below surface:	Not Reported
Feet to sea level:	-25.95	Note:	Not Reported
Level reading date:	1951-06-28	Feet below surface:	Not Reported
Feet to sea level:	-25.47	Note:	Not Reported
Level reading date:	1951-05-29	Feet below surface:	Not Reported
Feet to sea level:	-26.24	Note:	Not Reported
Level reading date:	1951-05-02	Feet below surface:	Not Reported
Feet to sea level:	-26.53	Note:	Not Reported
Level reading date:	1951-03-27	Feet below surface:	Not Reported
Feet to sea level:	-26.63	Note:	Not Reported
Level reading date:	1951-02-26	Feet below surface:	Not Reported
Feet to sea level:	-26.78	Note:	Not Reported
Level reading date:	1951-01-30	Feet below surface:	Not Reported
Feet to sea level:	-27.90	Note:	Not Reported
Level reading date:	1950-12-20	Feet below surface:	Not Reported
Feet to sea level:	-28.49	Note:	Not Reported
Level reading date:	1950-11-28	Feet below surface:	Not Reported
Feet to sea level:	-28.00	Note:	Not Reported
Level reading date:	1950-10-31	Feet below surface:	Not Reported
Feet to sea level:	-27.98	Note:	Not Reported
Level reading date:	1950-09-27	Feet below surface:	Not Reported
Feet to sea level:	-29.66	Note:	Not Reported
Level reading date:	1950-08-29	Feet below surface:	Not Reported
Feet to sea level:	-29.53	Note:	Not Reported
Level reading date:	1950-07-27	Feet below surface:	Not Reported
Feet to sea level:	-29.04	Note:	Not Reported
Level reading date:	1950-06-29	Feet below surface:	Not Reported
Feet to sea level:	-27.59	Note:	Not Reported
Level reading date:	1950-06-05	Feet below surface:	Not Reported
Feet to sea level:	-26.28	Note:	Not Reported
Level reading date:	1950-04-27	Feet below surface:	Not Reported
Feet to sea level:	-28.80	Note:	Not Reported
Level reading date:	1950-03-29	Feet below surface:	Not Reported
Feet to sea level:	-28.80	Note:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

54
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000830095**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 1560. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	101	Well Hole Depth Units:	ft

55
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829320**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 715. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	120	Well Hole Depth Units:	ft

56
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829892**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 679. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	218	Well Hole Depth Units:	ft

M57
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000829242**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 637. 1	Type:	Well
Description:	4101	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	212	Well Hole Depth Units:	ft

58
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000830073**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	Q 1918. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	82	Well Hole Depth Units:	ft

59
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000830081**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	K 689. 1	Type:	Well
Description:	Not Reported	HUC:	02030201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	160	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for KINGS County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for KINGS COUNTY, NY

Number of sites tested: 51

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.750 pCi/L	100%	0%	0%
Basement	1.370 pCi/L	88%	10%	2%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Source: Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX F

GOVERNMENT CORRESPONDENCE AND RECORDS

Molly Mattern

From: donotreply@records.nyc.gov
Sent: Thursday, January 20, 2022 4:14 PM
To: Molly Mattern
Subject: [External] [OpenRecords] Request FOIL-2022-826-00315 Submitted to Department of Environmental Protection (DEP)

Follow Up Flag: Follow up
Flag Status: Flagged

Your request FOIL-2022-826-00315 has been successfully submitted to the Department of Environmental Protection (DEP). The details of your request are shown below.

Request Title: 213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY

Request Description: Please consider this a formal Freedom of Information Law (FOIL) request for records regarding buildings, construction, chemical spills, underground storage tanks (USTs), monitoring wells, groundwater sampling, asbestos abatement, radon, hazardous materials and any other documents that your department may have regarding the property at 213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY.

Attached File: 1-Site_Location.pdf: 1-Site_Location.pdf

Requester's Contact Information

Name:
Molly Mattern
Title:
Not provided
Organization:
Langan Engineering
Email:
mmattern@langan.com
Phone Number:
(973) 560-4900
Fax Number:
Not provided
Street Address (line 1):
300 Kimball Drive
Street Address (line 2):
Floor 4
City:
Parsippany
State:
NJ
Zip Code:
07054

You can view the request and take any necessary action at the following webpage: https://a860-openrecords.nyc.gov/request/view/FOIL-2022-826-00315.

Molly Mattern

From: donotreply@records.nyc.gov
Sent: Wednesday, January 26, 2022 9:18 AM
To: Molly Mattern
Subject: [External] [OpenRecords] Request FOIL-2022-826-00315 Closed

Follow Up Flag: Follow up
Flag Status: Flagged

The Department of Environmental Protection (DEP) has **closed** your FOIL request FOIL-2022-826-00315 for the following reasons:

- A diligent search for records responsive to your request did not locate any such records. Accordingly, your request is denied.

You may appeal the decision to deny access to material that was redacted in part or withheld in entirety by contacting the agency's FOIL Appeals Officer: foilappeals@dep.nyc.gov within 30 days.

Molly Mattern

From: New York DEC Support <newyorkdec@mycusthelp.net>
Sent: Friday, January 21, 2022 9:13 AM
To: Molly Mattern
Subject: [External] FOIL Request :: W095078-012122

Follow Up Flag: Flag for follow up
Flag Status: Flagged

Dear Molly:

Thank you for your Freedom of Information Law (FOIL) request. Your request has been received and is being processed. Your request was received in this office on 1/21/2022 and given the reference number FOIL #W095078-012122 for tracking purposes. You may expect the Department's response to your request no later than **2/18/2022**.

Record Requested: **213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY Please consider this a formal Freedom of Information Law (FOIL) request for records regarding buildings, construction, chemical spills, underground storage tanks (USTs), monitoring wells, groundwater sampling, asbestos abatement, radon, hazardous materials and any other documents that your department may have regarding the property at 213 Meadow Street (Block 2591 Lots 1, 5, and 45), Brooklyn NY.**

You can monitor the progress of your request at the link below and you'll receive an email when your request has been completed. Again, thank you for using the FOIL Center.

https://mycusthelp.com/NEWYORKDEC/_rs/RequestLogin.aspx

New York State Department of Environmental Conservation, Record Access Office

---

Track the issue status and respond at:
https://newyorkdec.mycusthelp.com/webapp//_rs/RequestEdit.aspx?rid=95078

NEW YORK STATE OF OPPORTUNITY. Department of Health

KATHY HOCHUL
Governor

MARY T. BASSETT, M.D., M.P.H.
Commissioner

KRISTIN M. PROUD
Acting Executive Deputy Commissioner

January 21, 2022

Molly Mattern
Langan Engineering
300 Kimball Dr.
Parsippany, NJ 07054

FOIL #: 22-01-362
RE: 213 Meadow Street, Brooklyn, NY

Dear Molly Mattern:

This will acknowledge receipt of your request for records under the Freedom of Information Law (FOIL), received by this office on January 20, 2022.

Your request has been forwarded to the appropriate Department program area(s) to identify documents that are responsive to your request and which may be made available pursuant to all applicable provisions of the Freedom of Information Law.

A determination as to whether your request is granted or denied will be reached in approximately 20 business days or we will notify you in writing if the responsible program area(s) should require additional time to locate, assemble, and review documents that may be responsive to your request.

Please note that, pursuant to Article 6 of the Public Officers Law, a charge may be applied to your request, including the actual cost of the medium used to respond to your Freedom of Information Law request and/or other related costs. When responsive records have been identified, you will be informed of any cost and how payment should be made.

Sincerely,

Rosemarie Hewig, Esq.
Records Access Officer

RH/sjp

NEW YORK STATE OF OPPORTUNITY. Department of Health

KATHY HOCHUL
Governor

MARY T. BASSETT, M.D., M.P.H.
Commissioner

KRISTIN M. PROUD
Acting Executive Deputy Commissioner

February 18, 2022

Molly Mattern
Langan Engineering
300 Kimball Dr.
Parsippany, NJ 07054

FOIL #: 22-01-362

Dear Molly Mattern:

This letter is in regard to your Freedom of Information Law (FOIL) request of January 20, 2022, which is currently being processed.

Please be advised this Office is unable to respond to your request by the date previously given to you because a diligent search for responsive documents is still being conducted.

We estimate that this Office will complete its process by April 4, 2022. The Department will notify you in writing when/if the responsive materials are available for release or if the time needed to complete your request extends beyond the above date.

Should you require additional information or wish to discuss this matter further, please do not hesitate to contact me at (518) 474-8734.

Sincerely,

Rosemarie Hewig, Esq.
Records Access Officer

RH/dt

Molly Mattern

From: recordsaccess <recordsaccess@health.nyc.gov>
Sent: Tuesday, February 8, 2022 1:58 PM
To: Molly Mattern
Subject: [External] Re: [OpenRecords] FOIL Request Submitted to Department of Health and Mental Hygiene (DOHMH)

Follow Up Flag: Follow up
Flag Status: Flagged

FOIL Control #: 2022FR00325

The NYC Department of Health and Mental Hygiene (DOHMH) acknowledges receipt of your Freedom of Information Law request. It has been assigned the above-noted control number and has been forwarded to the following bureau for processing:

Environmental Health Services
Alfreda Torbert, e-mail: atorber1@health.nyc.gov
Sheba Taylor-Medina, e-mail: staylor2@health.nyc.gov

You should receive a response from the program/bureau within twenty(20) business days. Please note that as of January 1, 2019, the Department may charge the statutorily allowable fee of 25¢ per page for photocopied pages of FOIL responses. You will be advised by the program/bureau of the fee that is due and, upon receipt of your payment by check or money order, the copies will be forwarded to you.
All inquiries about the status of your request should be made with the program/bureau and control number noted above.

Thank you,

FOIL Administration
New York City Department of Health and Mental Hygiene
347-396-6011 (ph.)
347-396-6087 (f)
recordsaccess@health.nyc.gov

From: donotreply@records.nyc.gov <donotreply@records.nyc.gov>
Sent: Thursday, January 20, 2022 4:16 PM
To: mmattern@langan.com <mmattern@langan.com>
Subject: [OpenRecords] FOIL Request Submitted to Department of Health and Mental Hygiene (DOHMH)

Your request has been emailed to the Department of Health and Mental Hygiene (DOHMH) because that agency is not yet using the portal to respond to FOIL requests. The details of your request are shown below. No further information will be available on the OpenRecords portal regarding this request.
Request Title: 213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY

Request Description: Please consider this a formal Freedom of Information Law (FOIL) request for records

regarding buildings, construction, chemical spills, underground storage tanks (USTs), monitoring wells, groundwater sampling, asbestos abatement, radon, hazardous materials and any other documents that your department may have regarding the property at 213 Meadow Street (Block 2591 Lots 1, 5, and 45), Brooklyn NY.

Attached File: 1-Site_Location.pdf: 1-Site_Location.pdf

Requester's Contact Information

Name:
Molly Mattern
Title:
Not provided
Organization:
Langan Engineering
Email:
mmattern@langan.com
Phone Number:
(973) 560-4900
Fax Number:
Not provided
Street Address (line 1):
300 Kimball Drive
Street Address (line 2):
Floor 4
City:
Parsippany
State:
NJ
Zip Code:
07054

Please contact the Department of Health and Mental Hygiene (DOHMH) via email at foil@health.nyc.gov for any further information.

Sent from the New York City Department of Health & Mental Hygiene. This email and any files transmitted with it may contain confidential information and are intended solely for the use of the individual or entity to whom they are addressed. This footnote also confirms that this email message has been swept for the presence of computer viruses.

NEW YORK CITY DEPARTMENT OF
HEALTH AND MENTAL HYGIENE
Dave Chokshi, MD. MSc
Commissioner

, FR Christopher D'Andrea
Director

Office of Environmental Investigations
125 Worth St., Room 630
New York, NY 10013

Tel. 1 646 632-6104
Fax 1 646 632-6105

February 7, 2022

E Langan
Engineering and Environmental Services, P.C.
300 Kimball Drive
Parsippany, NJ 07054

Request No: 2022FR00220

Dear Sir/Madam

In response to your recent request for environmental records on:

- 213 Meadow Street, Brooklyn, NY

Please note the following:

☒ The Office of Environmental Investigations has "NO" record of an investigation at the above address.

☐ Enclosed are copies of the requested records we have on file.

Sincerely,

Christopher D'Andrea, MS, CIH
Director

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Long Island Ecological Services Field Office
340 Smith Road
Shirley, NY 11967-2258
Phone: (631) 286-0485 Fax: (631) 286-4003

In Reply Refer To: January 20, 2022
Consultation Code: 05E1LI00-2022-SLI-0496
Event Code: 05E1LI00-2022-E-01133
Project Name: 213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Long Island Ecological Services Field Office
340 Smith Road
Shirley, NY 11967-2258
(631) 286-0485

Project Summary

Consultation Code: 05E1LI00-2022-SLI-0496
Event Code: Some(05E1LI00-2022-E-01133)
Project Name: 213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY
Project Type: ** OTHER **
Project Description: Please consider this a formal Freedom of Information Law (FOIL) request for records regarding buildings, construction, chemical spills, underground storage tanks (USTs), monitoring wells, groundwater sampling, asbestos abatement, radon, hazardous materials and any other documents that your department may have regarding the property at 213 Meadow Street (Block 2591 Lots 1, 5, and 45), Brooklyn NY.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@40.7130045,-73.9284963543846,14z



Counties: Kings County, New York

Endangered Species Act Species

There is a total of 5 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Birds

NAME	STATUS
Piping Plover *Charadrius melodus* Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/6039	Threatened
Red Knot *Calidris canutus rufa* There is **proposed** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened
Roseate Tern *Sterna dougallii dougallii* Population: Northeast U.S. nesting population No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2083	Endangered

Insects

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Flowering Plants

NAME	STATUS
Seabeach Amaranth *Amaranthus pumilus*	Threatened

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/8549

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

MyProperty Search Results

INFORMATION FOUND FOR THE SUBMITTED ADDRESS

The entered address was found within the EPA Facility Registry System (FRS) list of address records.

Search Criteria
Address Searched: 213 Meadow Street
City Searched: Brooklyn
State Searched: NY

Query executed on 01/20/2022 04:40 PM

Facility Name	Address	City	State	Postal Code
CASTLE SANITATION CORPORATION Facility Report Summary Report Compliance Report	213 MEADOW STREET	BROOKLYN	NY	11237

Note: Click on the above Facility Report link to view a detailed list of known EPA and State Environmental Interests.
Click on the above Summary Report link to view environmental activities by this facility that may affect air, water, and land.
Click on the above Compliance Report link to view the current and past compliance history of this facility.

Disclaimer: The MyProperty reports are provided solely for informational purposes. They do not provide legal advice, have legally binding effec or expressly or implicitly create, expand, or limit any legal rights, obligations, responsibilities, expectations, or benefits in regard to any person. EF maintains the application to enhance public access to environmental information. This service has continual data updates, and we will correct erro brought to our attention, as appropriate.

LAST UPDATED ON {MONTH DAY, YYYY}

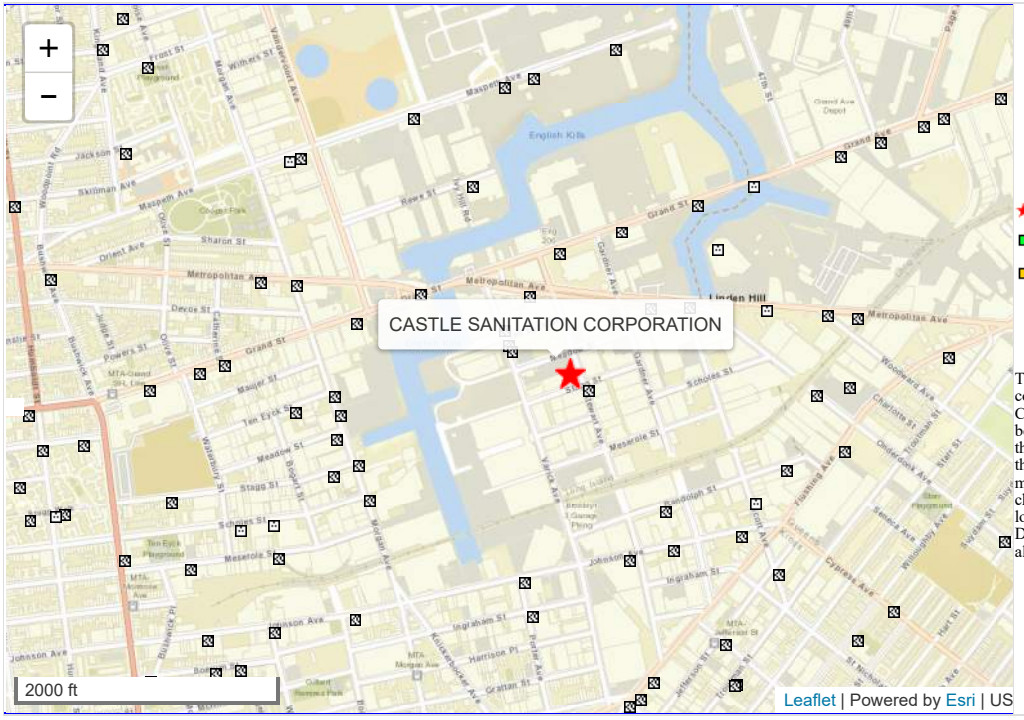
Related Topics: Envirofacts

FRS

FRS Facility Detail Report

CASTLE SANITATION CORPORATION

EPA Registry Id: 110070625464
213 MEADOW STREET
BROOKLYN, NY 11237



Legend

- Selected Facility
- EPA Facility of Interest
- State/Tribe Facility of Interest

The facility locations displayed come from the FRS Spatial Coordinates tables. They are the best representative locations for the displayed facilities based on the accuracy of the collection method and quality assurance checks performed against each location. The North American Datum of 1983 is used to display all coordinates.

Facility Registry Service Links:

- Facility Registry Service (FRS) Overview
- FRS Facility Query
- FRS Organization Query
- EZ Query
- FRS Physical Data Model
- FRS Geospatial Model

Report an Error

Environmental Interests

Information System	System Facility Name	Information System Id/Report Link	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (ICIS-NPDES)	CASTLE SANITATION CORPORATION	NYR00G305	ICIS-NPDES NON-MAJOR	ICIS		
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (ICIS-NPDES)	CASTLE SANITATION CORPORATION	NYR00G305	STORM WATER INDUSTRIAL	ICIS		

Additional EPA Reports: MyEnvironment Enforcement and Compliance Site Demographics Facility Coordinates Viewer Environmental Justice Map Viewer Watershed Report

Standard Industrial Classification Codes (SIC)

Data Source	SIC Code	Description	Primary
NPDES	4212	LOCAL TRUCKING WITHOUT STORAGE	

Facility Codes and Flags

EPA Region:	02
Duns Number:	
Congressional District Number:	07
Legislative District Number:	
HUC Code/Watershed:	02030201 / NORTHERN LONG ISLAND
US Mexico Border Indicator:	
Federal Facility:	
Tribal Land:	

Alternative Names

No Alternative Names returned.

Organizations

No Organizations returned.

National Industry Classification System Codes (NAICS)

No NAICS Codes returned.

Facility Mailing Addresses

No Facility Mailing Addresses returned.

Contacts

No Contacts returned.

Query executed on: JAN-20-2022

Last updated on September 24, 2015

An official website of the United States government

MENU

Search EPA.gov

Related Topics: **Envirofacts** <https://epa.gov/enviro>

CONTACT US <https://www.epa.gov/enviro/forms/contact-us-about-envirofacts>

Home <https://enviro.epa.gov> | Multisystem Search <https://enviro.epa.gov/facts/multisystem.html> | Topic Searches <https://www.epa.gov/enviro/topic-searches> | System Data Searches <https://www.epa.gov/enviro/system-data-searches> | About the Data <https://www.epa.gov/enviro/about-data> | Data Downloads <https://www.epa.gov/enviro/data-downloads> | Widgets <https://www.epa.gov/enviro/widgets> | Services <https://www.epa.gov/enviro/web-services> | Mobile <https://www.epa.gov/enviro/uv-index-mobile-app> | Other Datasets <https://epa.gov/node/111331>

CASTLE SANITATION CORPORATION
213 MEADOW STREET
BROOKLYN, NY 11237

**You can navigate within the map with your mouse.*

EPA Facility Information

This query was executed on JAN-20-2022

Integrated Compliance Information System (ICIS)

Facility

FACILITY NAME (1)	CASTLE SANITATION CORPORATION	**NPDES**	NYR00G305
STREET 1	213 MEADOW STREET	**SIC CODE**	4212 = Local Trucking, Without Storage

CITY		**MAJOR / MINOR**	
COUNTY NAME	Kings	**TYPE OF OWNERSHIP**	Corporation
STATE	NY	**ACTIVITY STATUS**	Effective
ZIP CODE	11237	**INACTIVE DATE**	
REGION	Region 2	**TYPE OF PERMIT ISSUED**	General Permit Covered Facility
LATITUDE	40.712936	**ORIGINAL PERMIT ISSUE DATE**	16-FEB-2018
LONGITUDE	-73.928108	**PERMIT ISSUED DATE**	16-FEB-2018
LAT/LON CODE OF ACCURACY	5	**PERMIT EXPIRED DATE**	28-FEB-2023
LAT/LON METHOD	Interpolation-Map		
LAT/LON SCALE	24000	**USGS HYDRO BASIN CODE**	
LAT/LON DATUM	NAD83	**FLOW**	
RECEIVING WATERS	NEWTOWN CREEK	**FEDERAL GRANT IND**	
PRETREATMENT CODE		**SLUDGE CLASS FAC IND**	NON-POTW
MAILING NAME		**SLUDGE RELATED PERMIT NUM**	
MAILING STREET (1)		**ANNUAL DRY SLUDGE PROD**	
MAILING STREET (2)			
MAILING CITY			
MAILING STATE			

MAILING ZIP CODE			
COGNIZANT OFFICIAL		**COGNIZANT OFFICIAL TEL**	

This facility has permits to discharge the following chemical/substances through the points (pipes) listed in the table below:

PARAMETER CODE	**PARAMETER DESCRIPTION** <https://epa.gov//enviro.epa.gov/html/emci/system_chemical_name.html>	**NUMBER OF DISCHARGE POINTS**
1330207	Xylene [mix of m+o+p]	4
71432	Benzene	4
108883	Toluene	4
100414	Ethylbenzene	4
	Oil & Grease	8
	Chemical Oxygen Demand [COD]	8

Additional Information can be obtained from Water Discharge Permit Information ICIS Search.

Data Refresh Information

<https://epa.gov/resources/echo-data/about-the-data#sources>

Detailed Facility Report

Facility Summary

CASTLE SANITATION CORPORATION
213 MEADOW STREET, BROOKLYN, NY 11237

FRS (Facility Registry Service) ID: 110070625464
EPA Region: 02
Latitude: 40.71283
Longitude: -73.92806
Locational Data Source: FRS
Industries:
Indian Country: N

Enforcement and Compliance Summary

Statute	Insp (5 Years)	Date of Last Inspection	Compliance Status	Qtrs with NC (Noncompliance) (of 12)	Qtrs with Significant Violation	Informal Enforcement Actions (5 years)	Formal Enforcement Actions (5 years)	Penalties from Formal Enforcement Actions (5 years)	EPA Cases (5 years)	Penalties from EPA Cases (5 years)
CWA	--	--	No Violation Identified	2	0	--	--	--	--	--

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): Minor, Permit Effective (NYR00G305)
Resource Conservation and Recovery Act (RCRA): No Information
Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information
Greenhouse Gas Emissions (eGGRT): No Information
Toxic Releases (TRI): No Information
Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Known Data Problems

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070625464					N	40.71283	-73.92806
ICIS-NPDES	CWA	NYR00G305	Minor: General Permit Covered Facility	Effective	Industrial Stormwater	02/28/2023	N	40.712936	-73.928108

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070625464	CASTLE SANITATION CORPORATION	213 MEADOW STREET, BROOKLYN, NY 11237	
ICIS-NPDES	CWA	NYR00G305	CASTLE SANITATION CORPORATION	213 MEADOW STREET, BROOKLYN, NY 11237	Kings County

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	NYR00G305	4212	Local Trucking, Without Storage
NPDES	NYR00G305	4212	Local Trucking, Without Storage

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
No data records returned			

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description
No data records returned		

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
No data records returned			

Enforcement and Compliance

Compliance Monitoring History (5 years)

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
No data records returned							

Entries in italics are not counted in EPA compliance monitoring strategies or annual results.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	NYR00G305	No	09/30/2021	2	01/14/2022

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type				QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
	CWA (Source ID: NYR00G305)				10/01-12/31/18	01/01-03/31/19	04/01-06/30/19	07/01-09/30/19	10/01-12/31/19	01/01-03/31/20	04/01-06/30/20	07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-01/14/22
	Facility-Level Status				**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**Violation Identified**	**Violation Identified**	**No Violation Identified**	**Undetermined**
	Quarterly Noncompliance Report History													Reportable Noncompliance	Reportable Noncompliance		
	Benchmark Limit Exceedances (No Violation): Pollutant	**Disch Point**	**Mon Loc**	**Freq**													
CWA	Chemical Oxygen Demand [COD] E	001 - Q	Effluent Gross	NMth										LIMIT VIOLATION			
CWA	Chemical Oxygen Demand [COD] E	002 - Q	Effluent Gross	NMth								13%					
CWA	Chemical Oxygen Demand [COD] E	003 - Q	Effluent Gross	NMth								8%					13%
CWA	Chemical Oxygen Demand [COD] E	003 - A	Effluent Gross	NMth													13%
CWA	Chemical Oxygen Demand [COD] E	004 - Q	Effluent Gross	NMth								15%					

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
	Permit Schedule Violations													
CWA	Annual Report and Certification										**01/28/2021**	**06/02/2021**		

Informal Enforcement Actions (5 Years)

Statute	System	Source ID	Type of Action	Lead Agency	Date
No data records returned					

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions (5 Years)

Statute	System	Law/Section	Source ID	Action Type	Case No.	Lead Agency	Case Name	Issued/Filed Date	Settlements/Actions	Settlement/Action Date	Federal Penalty Assessed	State/Local Penalty Assessed	Penalty Amount Collected	SEP Cost	Comp Action Cost
No data records returned															

Environmental Conditions

Watershed(s)

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
020301010405	East River-Hudson River	NEWTOWN CREEK	No	No	Chemical Oxygen Demand (COD)	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
NY	2016	NY1702-0104	Central Park Reservoir	Good		Fully Supporting	Insufficient Information	Insufficient Information	Insufficient Information	Insufficient Information
NY	2016	NY1702-0011	East River, Lower	Impaired - 303(d) Listed - With Restoration Plan	ORGANIC ENRICHMENT/OXYGEN DEPLETION | POLYCHLORINATED BIPHENYLS (PCBS) | TRASH		Insufficient Information	Insufficient Information		Not Supporting
NY	2016	NY1702-0002	Newtown Creek and tidal tribs	Impaired - 303(d) Listed - With Restoration Plan	ORGANIC ENRICHMENT/OXYGEN DEPLETION | PATHOGENS | TRASH		Not Supporting	Insufficient Information		Not Supporting
NY	2016	NY1702-0257	Ridgewood Reservoir	Unknown		Insufficient Information	Insufficient Information	Insufficient Information	Insufficient Information	Insufficient Information
NY	2016	NY1702-0105	The Lake in Central Park	Impaired - 303(d) Listed	NUTRIENTS		Insufficient Information	Insufficient Information	Not Supporting	Not Supporting
NY	2016	NY1701-0022	Upper New York Bay	Impaired - 303(d) Listed	POLYCHLORINATED BIPHENYLS (PCBS)		Insufficient Information	Not Supporting		Insufficient Information

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	Yes	1-Hour Ozone (1979); 8-Hour Ozone (2008); 8-Hour Ozone (2015)	No	
Lead	No		No	
Particulate Matter	No		Yes	PM-2.5 (1997); PM-2.5 (2006)
Carbon Monoxide	No		Yes	Carbon Monoxide (1971)
Sulfur Dioxide	No		No	

Pollutants

Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-site Releases	Total Off-site Transfers
No data records returned								

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name
No data records returned

Community

EJSCREEN EJ Indexes

Eleven primary environmental justice (EJ) indexes of EJSCREEN, EPA's screening tool for EJ concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. The index values below are for the Census block group in which the facility is located. Note that use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJSCREEN provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJSCREEN home page.

Census Block Group EJ Indexes (percentile)	
Particulate Matter (PM 2.5)	58.9
Ozone	58.9
NATA Diesel PM	61.3
NATA Air Toxics Cancer Risk	58.9
NATA Respiratory Hazard Index (HI)	59.1
Traffic Proximity	68.2
Lead Paint Indicator	66.9
National Priority List (NPL) Site Proximity	73
Risk Management Plan (RMP) Site Proximity	60.6
Hazardous Waste Proximity	83.5
Wastewater Discharge Proximity	94.8

Number of EJ Indexes Above 80th Percentile
2

View EJSCREEN Report

Demographic Profile of Surrounding Area (1 Mile)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 U.S. Census and 2014 - 2018 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary.

General Statistics	
Total Persons (U.S. Census)	83,210
Population Density	27,778/sq.mi.
Percent People of Color	68%
Households in Area	32,563
Housing Units in Area	32,039
Total Persons (ACS (American Community Survey))	84,953
Households on Public Assistance	1,405
Persons With Low Income	36,324
Percent With Low Income	43%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	40.71283
Center Longitude	-73.92806
Land Area	96%

Age Breakdown - Persons (%)	
Children 5 years and younger	5,157 (6%)
Minors 17 years and younger	17,358 (21%)
Adults 18 years and older	65,853 (79%)
Seniors 65 years and older	6,366 (8%)

Race Breakdown - Persons (%)	
White	40,831 (49%)
African-American	9,239 (11%)
Hispanic-Origin	47,387 (57%)
Asian/Pacific Islander	5,371 (6%)
American Indian	916 (1%)
Other/Multiracial	26,854 (32%)

Education Level (Persons 25 & older) - Persons (%)	
Less than 9th Grade	7,110 (12.01%)
9th through 12th Grade	6,340 (10.71%)

Geography	
Water Area	4%

Income Breakdown - Households (%)	
Less than $15,000	5,731 (17.6%)
$15,000 - $25,000	3,049 (9.36%)
$25,000 - $50,000	6,006 (18.45%)
$50,000 - $75,000	4,626 (14.21%)
Greater than $75,000	13,147 (40.38%)

Education Level (Persons 25 & older) - Persons (%)	
High School Diploma	12,547 (21.19%)
Some College/2-year	10,343 (17.46%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	22,875 (38.63%)

Detailed Facility Report

Facility Summary

CASTLE SANITATION CORPORATION
213 MEADOW STREET, BROOKLYN, NY 11237

FRS (Facility Registry Service) ID: 110070625464
EPA Region: 02
Latitude: 40.71283
Longitude: -73.92806
Locational Data Source: FRS
Industries:
Indian Country: N

Enforcement and Compliance Summary

Statute	Insp (5 Years)	Date of Last Inspection	Compliance Status	Qtrs with NC (Noncompliance) (of 12)	Qtrs with Significant Violation	Informal Enforcement Actions (5 years)	Formal Enforcement Actions (5 years)	Penalties from Formal Enforcement Actions (5 years)	EPA Cases (5 years)	Penalties from EPA Cases (5 years)
CWA	--	--	No Violation Identified	2	0	--	--	--	--	--

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): Minor, Permit Effective (NYR00G305)
Resource Conservation and Recovery Act (RCRA): No Information
Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information
Greenhouse Gas Emissions (eGGRT): No Information
Toxic Releases (TRI): No Information
Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Known Data Problems

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070625464					N	40.71283	-73.92806
ICIS-NPDES	CWA	NYR00G305	Minor: General Permit Covered Facility	Effective	Industrial Stormwater	02/28/2023	N	40.712936	-73.928108

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070625464	CASTLE SANITATION CORPORATION	213 MEADOW STREET, BROOKLYN, NY 11237	
ICIS-NPDES	CWA	NYR00G305	CASTLE SANITATION CORPORATION	213 MEADOW STREET, BROOKLYN, NY 11237	Kings County

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	NYR00G305	4212	Local Trucking, Without Storage
NPDES	NYR00G305	4212	Local Trucking, Without Storage

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
No data records returned			

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description
No data records returned		

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
No data records returned			

Enforcement and Compliance

Compliance Monitoring History (5 years)

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
No data records returned							

Entries in italics are not counted in EPA compliance monitoring strategies or annual results.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	NYR00G305	No	09/30/2021	2	01/14/2022

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type				QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
	CWA (Source ID: NYR00G305)				10/01-12/31/18	01/01-03/31/19	04/01-06/30/19	07/01-09/30/19	10/01-12/31/19	01/01-03/31/20	04/01-06/30/20	07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-01/14/22
	Facility-Level Status				**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**Violation Identified**	**Violation Identified**	**No Violation Identified**	**Undetermined**
	Quarterly Noncompliance Report History													Reportable Noncompliance	Reportable Noncompliance		
	Benchmark Limit Exceedances (No Violation): Pollutant	**Disch Point**	**Mon Loc**	**Freq**													
CWA	Chemical Oxygen Demand [COD] E	001 - Q	Effluent Gross	NMth										LIMIT VIOLATION			
CWA	Chemical Oxygen Demand [COD] E	002 - Q	Effluent Gross	NMth								13%					
CWA	Chemical Oxygen Demand [COD] E	003 - Q	Effluent Gross	NMth								8%					13%
CWA	Chemical Oxygen Demand [COD] E	003 - A	Effluent Gross	NMth													13%
CWA	Chemical Oxygen Demand [COD] E	004 - Q	Effluent Gross	NMth								15%					

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
	Permit Schedule Violations													
CWA	Annual Report and Certification										**01/28/2021**	**06/02/2021**		

Informal Enforcement Actions (5 Years)

Statute	System	Source ID	Type of Action	Lead Agency	Date
No data records returned					

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions (5 Years)

Statute	System	Law/Section	Source ID	Action Type	Case No.	Lead Agency	Case Name	Issued/Filed Date	Settlements/Actions	Settlement/Action Date	Federal Penalty Assessed	State/Local Penalty Assessed	Penalty Amount Collected	SEP Cost	Comp Action Cost
No data records returned															

Environmental Conditions

Watershed(s)

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
020301010405	East River-Hudson River	NEWTOWN CREEK	No	No	Chemical Oxygen Demand (COD)	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
NY	2016	NY1702-0104	Central Park Reservoir	Good		Fully Supporting	Insufficient Information	Insufficient Information	Insufficient Information	Insufficient Information
NY	2016	NY1702-0011	East River, Lower	Impaired - 303(d) Listed - With Restoration Plan	ORGANIC ENRICHMENT/OXYGEN DEPLETION | POLYCHLORINATED BIPHENYLS (PCBS) | TRASH		Insufficient Information	Insufficient Information		Not Supporting
NY	2016	NY1702-0002	Newtown Creek and tidal tribs	Impaired - 303(d) Listed - With Restoration Plan	ORGANIC ENRICHMENT/OXYGEN DEPLETION | PATHOGENS | TRASH		Not Supporting	Insufficient Information		Not Supporting
NY	2016	NY1702-0257	Ridgewood Reservoir	Unknown		Insufficient Information	Insufficient Information	Insufficient Information	Insufficient Information	Insufficient Information
NY	2016	NY1702-0105	The Lake in Central Park	Impaired - 303(d) Listed	NUTRIENTS		Insufficient Information	Insufficient Information	Not Supporting	Not Supporting
NY	2016	NY1701-0022	Upper New York Bay	Impaired - 303(d) Listed	POLYCHLORINATED BIPHENYLS (PCBS)		Insufficient Information	Not Supporting		Insufficient Information

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	Yes	1-Hour Ozone (1979); 8-Hour Ozone (2008); 8-Hour Ozone (2015)	No	
Lead	No		No	
Particulate Matter	No		Yes	PM-2.5 (1997); PM-2.5 (2006)
Carbon Monoxide	No		Yes	Carbon Monoxide (1971)
Sulfur Dioxide	No		No	

Pollutants

Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-site Releases	Total Off-site Transfers
No data records returned								

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name
No data records returned

Community

EJSCREEN EJ Indexes

Eleven primary environmental justice (EJ) indexes of EJSCREEN, EPA's screening tool for EJ concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. The index values below are for the Census block group in which the facility is located. Note that use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJSCREEN provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJSCREEN home page.

Census Block Group EJ Indexes (percentile)	
Particulate Matter (PM 2.5)	58.9
Ozone	58.9
NATA Diesel PM	61.3
NATA Air Toxics Cancer Risk	58.9
NATA Respiratory Hazard Index (HI)	59.1
Traffic Proximity	68.2
Lead Paint Indicator	66.9
National Priority List (NPL) Site Proximity	73
Risk Management Plan (RMP) Site Proximity	60.6
Hazardous Waste Proximity	83.5
Wastewater Discharge Proximity	94.8

Number of EJ Indexes Above 80th Percentile
2

View EJSCREEN Report

Demographic Profile of Surrounding Area (1 Mile)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 U.S. Census and 2014 - 2018 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary.

General Statistics	
Total Persons (U.S. Census)	83,210
Population Density	27,778/sq.mi.
Percent People of Color	68%
Households in Area	32,563
Housing Units in Area	32,039
Total Persons (ACS (American Community Survey))	84,953
Households on Public Assistance	1,405
Persons With Low Income	36,324
Percent With Low Income	43%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	40.71283
Center Longitude	-73.92806
Land Area	96%

Age Breakdown - Persons (%)	
Children 5 years and younger	5,157 (6%)
Minors 17 years and younger	17,358 (21%)
Adults 18 years and older	65,853 (79%)
Seniors 65 years and older	6,366 (8%)

Race Breakdown - Persons (%)	
White	40,831 (49%)
African-American	9,239 (11%)
Hispanic-Origin	47,387 (57%)
Asian/Pacific Islander	5,371 (6%)
American Indian	916 (1%)
Other/Multiracial	26,854 (32%)

Education Level (Persons 25 & older) - Persons (%)	
Less than 9th Grade	7,110 (12.01%)
9th through 12th Grade	6,340 (10.71%)

Geography	
Water Area	4%

Income Breakdown - Households (%)	
Less than $15,000	5,731 (17.6%)
$15,000 - $25,000	3,049 (9.36%)
$25,000 - $50,000	6,006 (18.45%)
$50,000 - $75,000	4,626 (14.21%)
Greater than $75,000	13,147 (40.38%)

Education Level (Persons 25 & older) - Persons (%)	
High School Diploma	12,547 (21.19%)
Some College/2-year	10,343 (17.46%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	22,875 (38.63%)

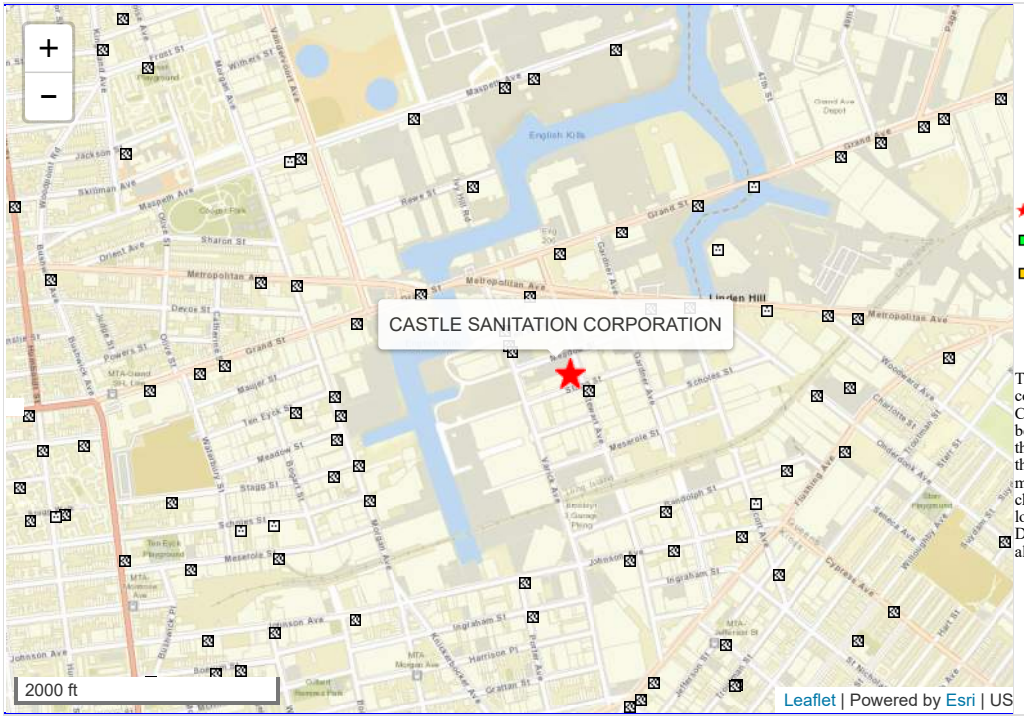
Related Topics: Envirofacts

FRS

FRS Facility Detail Report

CASTLE SANITATION CORPORATION

EPA Registry Id: 110070625464
213 MEADOW STREET
BROOKLYN, NY 11237



Legend

- Selected Facility
- EPA Facility of Interest
- State/Tribe Facility of Interest

The facility locations displayed come from the FRS Spatial Coordinates tables. They are the best representative locations for the displayed facilities based on the accuracy of the collection method and quality assurance checks performed against each location. The North American Datum of 1983 is used to display all coordinates.

Facility Registry Service Links:

- Facility Registry Service (FRS) Overview
- FRS Facility Query
- FRS Organization Query
- EZ Query
- FRS Physical Data Model
- FRS Geospatial Model

Report an Error

Environmental Interests

Information System	System Facility Name	Information System Id/Report Link	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (ICIS-NPDES)	CASTLE SANITATION CORPORATION	NYR00G305	ICIS-NPDES NON-MAJOR	ICIS		
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (ICIS-NPDES)	CASTLE SANITATION CORPORATION	NYR00G305	STORM WATER INDUSTRIAL	ICIS		

Additional EPA Reports: MyEnvironment Enforcement and Compliance Site Demographics Facility Coordinates Viewer Environmental Justice Map Viewer Watershed Report

Standard Industrial Classification Codes (SIC)

Data Source	SIC Code	Description	Primary
NPDES	4212	LOCAL TRUCKING WITHOUT STORAGE	

Facility Codes and Flags

EPA Region:	02
Duns Number:	
Congressional District Number:	07
Legislative District Number:	
HUC Code/Watershed:	02030201 / NORTHERN LONG ISLAND
US Mexico Border Indicator:	
Federal Facility:	
Tribal Land:	

Alternative Names

No Alternative Names returned.

Organizations

No Organizations returned.

National Industry Classification System Codes (NAICS)

No NAICS Codes returned.

Facility Mailing Addresses

No Facility Mailing Addresses returned.

Contacts

No Contacts returned.

Query executed on: JAN-20-2022

Last updated on September 24, 2015

An official website of the United States government

MENU

Search EPA.gov

Related Topics: **Envirofacts** <https://epa.gov/enviro>

CONTACT US <https://www.epa.gov/enviro/forms/contact-us-about-envirofacts>

Home <https://enviro.epa.gov> | Multisystem Search <https://enviro.epa.gov/facts/multisystem.html> | Topic Searches <https://www.epa.gov/enviro/topic-searches> | System Data Searches <https://www.epa.gov/enviro/system-data-searches> | About the Data <https://www.epa.gov/enviro/about-data> | Data Downloads <https://www.epa.gov/enviro/data-downloads> | Widgets <https://www.epa.gov/enviro/widgets> | Services <https://www.epa.gov/enviro/web-services> | Mobile <https://www.epa.gov/enviro/uv-index-mobile-app> | Other Datasets <https://epa.gov/node/111331>

CASTLE SANITATION CORPORATION
213 MEADOW STREET
BROOKLYN, NY 11237

**You can navigate within the map with your mouse.*

EPA Facility Information

This query was executed on JAN-20-2022

Integrated Compliance Information System (ICIS)

Facility

FACILITY NAME (1)	CASTLE SANITATION CORPORATION	**NPDES**	NYR00G305
STREET 1	213 MEADOW STREET	**SIC CODE**	4212 = Local Trucking, Without Storage

CITY		**MAJOR / MINOR**	
COUNTY NAME	Kings	**TYPE OF OWNERSHIP**	Corporation
STATE	NY	**ACTIVITY STATUS**	Effective
ZIP CODE	11237	**INACTIVE DATE**	
REGION	Region 2	**TYPE OF PERMIT ISSUED**	General Permit Covered Facility
LATITUDE	40.712936	**ORIGINAL PERMIT ISSUE DATE**	16-FEB-2018
LONGITUDE	-73.928108	**PERMIT ISSUED DATE**	16-FEB-2018
LAT/LON CODE OF ACCURACY	5	**PERMIT EXPIRED DATE**	28-FEB-2023
LAT/LON METHOD	Interpolation-Map		
LAT/LON SCALE	24000	**USGS HYDRO BASIN CODE**	
LAT/LON DATUM	NAD83	**FLOW**	
RECEIVING WATERS	NEWTOWN CREEK	**FEDERAL GRANT IND**	
PRETREATMENT CODE		**SLUDGE CLASS FAC IND**	NON-POTW
MAILING NAME		**SLUDGE RELATED PERMIT NUM**	
MAILING STREET (1)		**ANNUAL DRY SLUDGE PROD**	
MAILING STREET (2)			
MAILING CITY			
MAILING STATE			

MAILING ZIP CODE			
COGNIZANT OFFICIAL		**COGNIZANT OFFICIAL TEL**	

This facility has permits to discharge the following chemical/substances through the points (pipes) listed in the table below:

PARAMETER CODE	**PARAMETER DESCRIPTION** <https://epa.gov//enviro.epa.gov/html/emci/system_chemical_name.html>	**NUMBER OF DISCHARGE POINTS**
1330207	Xylene [mix of m+o+p]	4
71432	Benzene	4
108883	Toluene	4
100414	Ethylbenzene	4
	Oil & Grease	8
	Chemical Oxygen Demand [COD]	8

Additional Information can be obtained from Water Discharge Permit Information ICIS Search.

Data Refresh Information

<https://epa.gov/resources/echo-data/about-the-data#sources>

CEQR Project Search

Keyword

Lead Agency

-- Select Lead Agency --

CEQR Number

Project Name

Community District

-- Select Community District --

Borough / Block / Lot

-- Select Boro --

2591

1

Search | Clear (../ceqr)

No Results Found

No projects found matching your criteria.

Disclaimer and Notes:

The database contains records of CEQR projects, which were filed with the Mayor's Office of Environmental Coordination from January 1, 2005 to the present. While some older records are available in the database, records that cannot be found on CEQR Access should be requested from the agency that was responsible for preparing it (the "Lead Agency"). If any errors are found in the database, please notify the Mayor's Office of Environmental Coordination (ceqraccess@cityhall.nyc.gov). The Mayor's Office of Environmental Coordination makes no representation as to the accuracy of the information in the database or its suitability for any purpose, and disclaims any liability for errors that may be contained therein.

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CEQR Project Search

Keyword

Lead Agency

-- Select Lead Agency --

CEQR Number

Project Name

Community District

-- Select Community District --

Borough / Block / Lot

-- Select Boro --

2591

5

Search | Clear (../ceqr)

No Results Found

No projects found matching your criteria.

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CEQR Project Search

Keyword

Lead Agency

-- Select Lead Agency --

CEQR Number

Project Name

Community District

-- Select Community District --

Borough / Block / Lot

-- Select Boro --

2591

45

Search | Clear (../ceqr)

No Results Found

No projects found matching your criteria.

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DECinfo Locator Legend (Active Layers)

Environmental Cleanup

- Remediation Parcels
- Remediation Sites

Environmental Monitoring

- Lakes and Reservoirs
- Estuaries
- Rivers and Streams
- Shorelines
- Hydrologic Unit Code (HUC) 10
- Air Quality Monitoring Sites
- Community Air Quality Reports
- Aquatic Biological Monitoring
- Aquatic Toxicity Monitoring
- Archived Harmful Algal Bloom Reports
- Harmful Algal Bloom Reports

Public Involvement

- Potential Environmental Justice Areas
- OEJ Grants
- Environmental Excellence Awards Winners
- Climate Smart Communities
- Climate Smart Communities Grants
- Zero-emission Vehicle Rebates
- Zero-emission Vehicle Infrastructure Grants

Environmentally Sensitive Areas

- Critical Environmental Areas
- Regulatory Tidal Wetlands Areas

Reference Layers

- DEC Regional Offices
- County Boundary

(/)

Request a Record

Please make your request specific so you receive the fastest service. After you submit a FOIL request you will receive a confirmation number so you can track the status of the response. The agency will notify you about how much time is required to respond to your request.

Category (optional)

Selecting a category helps clarify which agency will receive the request by listing agencies grouped by categories.

Environment

Agency (required)

Select the agency that will handle your request.

Department of Environmental Protection (DEP)

Request Title (required)

213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY

28 characters remaining

Note: The agency, category, and title of your request will be visible to the public. Do not enter personal information here.

Ex: Queens Blvd Roadwork Permit.

Request Description (required)

Please consider this a formal Freedom of Information Law (FOIL) request for records regarding buildings, construction, chemical spills, underground storage tanks (USTs), monitoring wells, groundwater sampling, asbestos abatement, radon, hazardous materials and any other documents that your department may have regarding the property at 213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY.

4599 characters remaining

Note: The request details you write here will not be visible to the public. However, the agency may post a description of the records provided.

Ex: Roadwork permits for work done in on Queens Blvd. between 40th and 45th streets, Borough of Queens, in September and October 2017.

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Upload File (optional, must be less than 20 Mb)

Clear File

1-Site Location.pdf

Personal Information

First and last name fields are required. The Email field is optional but recommended. If you do not provide an email you must enter either a phone number, fax number, or address in the Alternate Contact Information section.

This information will not be publicly viewable on this site. You must provide contact information so that the agency can respond to your request for records.

First Name (required)

Molly

27 characters remaining

Last Name (required)

Mattern

57 characters remaining

Email

mmattern@langan.com

Alternate Contact Information

No information entered in this section will be visible to the public.

Fields are included in case alternate contact method is needed.

Title

Your role in your organization (if applicable)

64 characters remaining

Organization

Langan Engineering

110 characters remaining

Phone

Privacy - Terms

(973) 560-4900

Fax

(555) 555-5555

Address

Address Line 1

300 Kimball Drive

Address Line 2

Floor 4

City

Parsippany

State / U.S. Territory

New Jersey

Zip

07054

Submit Request

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CityStore (http://a856-citystore.nyc.gov/)

Stay Connected (http://www1.nyc.gov/connect/social-media.page)

NYC Mobile Apps (http://www1.nyc.gov/connect/applications.page)

Maps (http://www1.nyc.gov/nyc-resources/nyc-maps.page)

Resident Toolkit (http://www1.nyc.gov/nyc-resources/resident-toolkit.page)

Search

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Molly Mattern

From: donotreply@records.nyc.gov
Sent: Thursday, January 20, 2022 4:16 PM
To: Molly Mattern
Subject: [External] [OpenRecords] FOIL Request Submitted to Department of Health and Mental Hygiene (DOHMH)

Follow Up Flag: Follow up
Flag Status: Flagged

Your request has been emailed to the Department of Health and Mental Hygiene (DOHMH) because that agency is not yet using the portal to respond to FOIL requests. The details of your request are shown below. No further information will be available on the OpenRecords portal regarding this request.

Request Title: 213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY

Request Description: Please consider this a formal Freedom of Information Law (FOIL) request for records regarding buildings, construction, chemical spills, underground storage tanks (USTs), monitoring wells, groundwater sampling, asbestos abatement, radon, hazardous materials and any other documents that your department may have regarding the property at 213 Meadow Street (Block 2591 Lots 1, 5, and 45), Brooklyn NY.

Attached File: 1-Site_Location.pdf: 1-Site_Location.pdf

Requester's Contact Information

Name:
Molly Mattern
Title:
Not provided
Organization:
Langan Engineering
Email:
mmattern@langan.com
Phone Number:
(973) 560-4900
Fax Number:
Not provided
Street Address (line 1):
300 Kimball Drive
Street Address (line 2):
Floor 4
City:
Parsippany
State:
NJ
Zip Code:
07054

Please contact the Department of Health and Mental Hygiene (DOHMH) via email at foil@health.nyc.gov for any further information.

(/)

Request a Record

Please make your request specific so you receive the fastest service. After you submit a FOIL request you will receive a confirmation number so you can track the status of the response. The agency will notify you about how much time is required to respond to your request.

Category (optional)

Selecting a category helps clarify which agency will receive the request by listing agencies grouped by categories.

Health

Agency (required)

Select the agency that will handle your request.

Department of Health and Mental Hygiene (DOHMH)

Request Title (required)

213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY

28 characters remaining

Note: The agency, category, and title of your request will be visible to the public. Do not enter personal information here.

Ex: Queens Blvd Roadwork Permit.

Request Description (required)

Please consider this a formal Freedom of Information Law (FOIL) request for records regarding buildings, construction, chemical spills, underground storage tanks (USTs), monitoring wells, groundwater sampling, asbestos abatement, radon, hazardous materials and any other documents that your department may have regarding the property at 213 Meadow Street (Block 2591 Lots 1, 5, and 45), Brooklyn NY.

4601 characters remaining

Note: The request details you write here will not be visible to the public. However, the agency may post a description of the records provided.

Ex: Roadwork permits for work done in on Queens Blvd. between 40th and 45th streets, Borough of Queens, in September and October 2017.

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Upload File (optional, must be less than 20 Mb)

Clear File

1-Site Location.pdf

Personal Information

First and last name fields are required. The Email field is optional but recommended. If you do not provide an email you must enter either a phone number, fax number, or address in the Alternate Contact Information section.

This information will not be publicly viewable on this site. You must provide contact information so that the agency can respond to your request for records.

First Name (required)

Molly

27 characters remaining

Last Name (required)

Mattern

57 characters remaining

Email

mmattern@langan.com

Alternate Contact Information

No information entered in this section will be visible to the public.

Fields are included in case alternate contact method is needed.

Title

Your role in your organization (if applicable)

64 characters remaining

Organization

Langan Engineering

110 characters remaining

Phone

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(973) 560-4900

Fax

(555) 555-5555

Address

Address Line 1

300 Kimball Drive

Address Line 2

Floor 4

City

Parsippany

State / U.S. Territory

New Jersey

Zip

07054

Submit Request

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CityStore (http://a856-citystore.nyc.gov/)

Stay Connected (http://www1.nyc.gov/connect/social-media.page)

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Maps (http://www1.nyc.gov/nyc-resources/nyc-maps.page)

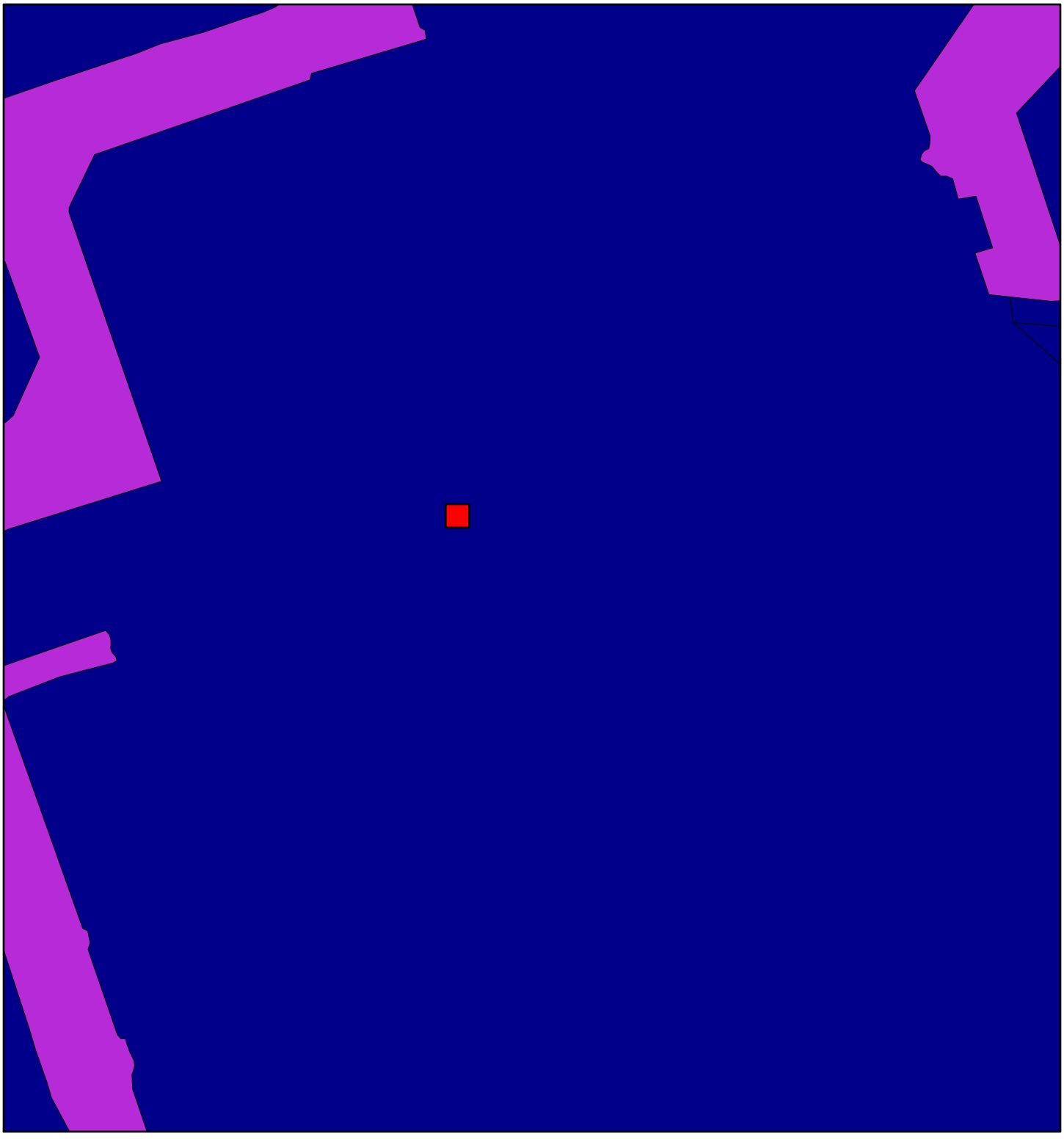
Resident Toolkit (http://www1.nyc.gov/nyc-resources/resident-toolkit.page)

Search

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-DQD7\UL&LD-RQRQ F3HQVUHWDSRQULBWRUV DQG
WKH{6HU&RPLW\

3SDUWRQ RQLURQWDO &RQHUYDWLRQ
IRU DOHDD GF\PQW

Molly Mattern

From: noreply@its.ny.gov
Sent: Thursday, January 20, 2022 4:32 PM
To: Molly Mattern
Subject: [External] FOIL Request Confirmation from Open FOIL NY

Follow Up Flag: Follow up
Flag Status: Flagged

Thank you for submitting your FOIL request through Open FOIL NY.

Here is your Open FOIL NY confirmation information for future reference:

MATTERN_DEC_20220120163225863

MATTERN_DOH_20220120163225863

INFORMATION SUBMITTED:

Records Requested From	Department of Environmental Conservation Department of Health
Short Title	213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY
Description	Please consider this a formal Freedom of Information Law (FOIL) request for records regarding buildings, construction, chemical spills, underground storage tanks (USTs), monitoring wells, groundwater sampling, asbestos abatement, radon, hazardous materials and any other documents that your department may have regarding the property at 213 Meadow Street (Block 2591 Lots 1, 5, and 45), Brooklyn NY.
Uploaded Files	1-Site Location.pdf
FOIL Response Format	Email
If fees apply, please contact me if costs will be greater than	$0

Your FOIL request has been forwarded to the organization(s) you selected, and the respective Records Access Officer will contact you directly for further processing of

your request. Please allow up to five business days for such communication(s). For your convenience, here is additional contact information:

Department of Environmental Conservation
625 Broadway

Albany, NY 12233-1500

Department of Health
Corning Tower
Room 2364
Albany, NY 12237-0044

January 20, 2022 | 1:55 pm

COVID-19 Vaccines

Vaccine appointments are available at New York State mass vaccination sites for children ages 5- 11. Vaccines are also widely available through your child's pediatrician, family physician, local county health department, FQHC, or pharmacy.

FIND PROVIDER >
(https://covid19vaccine.health.ny.gov/)

Open FOIL NY (https://www.ny.gov/programs/open-foil-ny)

Submit a FOIL Request

In the form below, you can easily select up to three agencies/authorities and submit a FOIL request. All fields marked * are required for a successful submission. If the entity you seek is not listed, please access the New York State All Agencies website (http://www.ny.gov/agencies) for more information.

Thank you for using Open FOIL (https://www.ny.gov/programs/open-foil-ny) NY!

***Records Requested From:**

Department of Environmental Conservation

Additional Agency:

Department of Health

Helpful tip: some DOH records do not require a FOIL request. Find out more. (https://www.health.ny.gov/vital_records/)

+ ADD AGENCY

Title:

--

***First Name:**

Molly

Middle Initial:

***Last Name:**

Mattern

***Email:**

mmattern@langan.com

***Confirm Email:**

mmattern@langan.com

Organization / Affiliation:

Langan Engineering

Address Line 1:

300 Kimball Drive

Address Line 2:

Floor 4

City:

Parsippany

State / Province:

New Jersey

Zip / Postal Code:

07054

Country:

USA

Contact Phone Number:

(973) 560-4900

Fax Number:

Fax Number, include area code

***Short title of requested records:**

Information provided here helps the agency easily identify and categorize your request.

213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY

***FOIL Request / Description of records sought:**

Please provide a clear description of the record(s) sought. Personal, private, sensitive, financial, medical, or health-related information should not be put into the “Description” field below, and should instead be uploaded in a separate document.

Please consider this a formal Freedom of Information Law (FOIL) request for records regarding buildings, construction, chemical spills, underground storage tanks (USTs), monitoring wells, groundwater sampling, asbestos abatement, radon, hazardous materials and any other documents that your department may have regarding the property at 213 Meadow Street (Block 2591 Lots 1, 5, and 45), Brooklyn NY.

400/5000

Upload Document(s) in support of your FOIL request:

+ CHOOSE ✖ CANCEL

1-Site Location.pdf - 1.391866 MB

We accept common file types such as: Documents, PDFs, Spreadsheets, Images, etc. **1.39MB/20MB**

***Requested Response Format:**

Email

If fees apply, please contact me if costs will be greater than:
I understand that I will be notified if the fees exceed this amount prior to my request being filled.

$	0	.00

Additional Information

I am requesting this information for the following reason (may select more than one):

- [ ] **I am an individual seeking information for personal use**
- [ ] **I am affiliated with an educational or non-commercial scientific institution, and this request is made for a scholarly or scientific purpose**
- [ ] **I am a representative of, or affiliated with, the news media and this request is made as part of a news gathering effort**
- [ ] **I am affiliated with a private corporation and am seeking information for use in the company's business for commercial purpose**
- [ ] **I am affiliated with a private corporation and am seeking information for use in the company's business for non-commercial purpose**

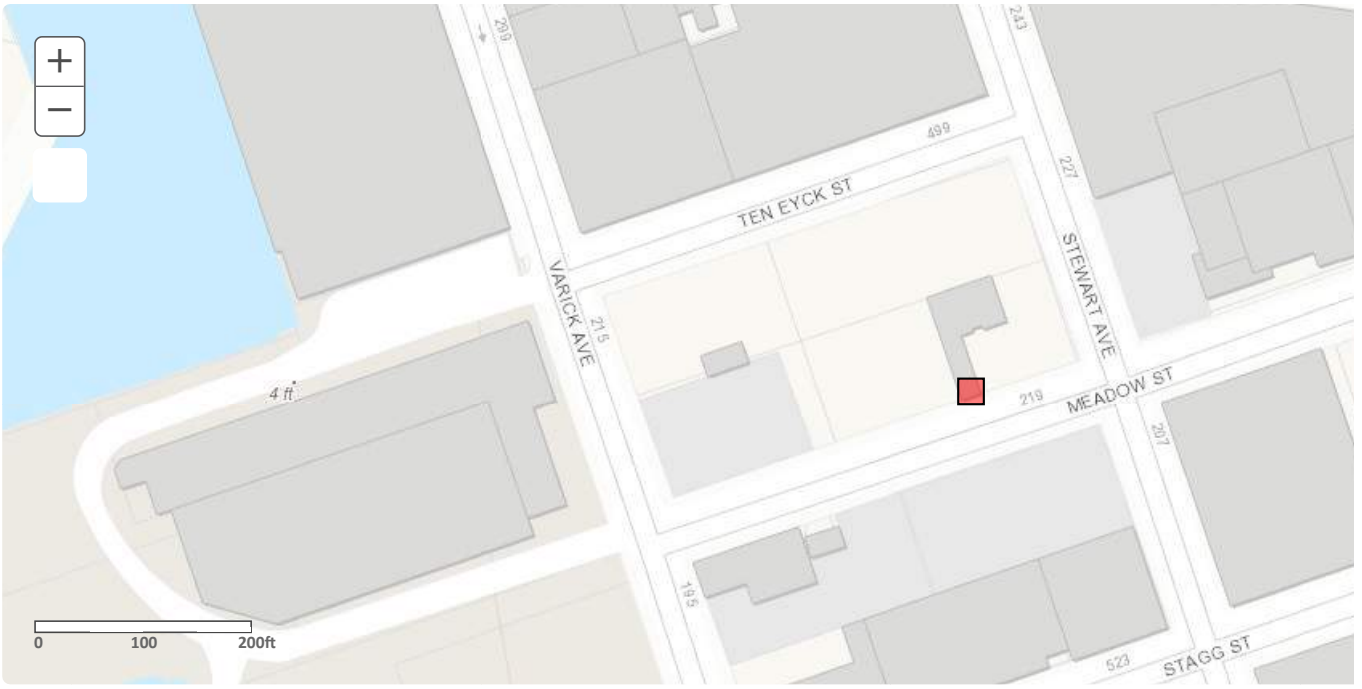
The foregoing information will be used for statistical purposes.

CONTINUE TO REVIEW

Environmental Resource Mapper

Base Map: Topographical Using this map

- Search
- Tools
- **Layers and Legend**
  - Mussel Screening Streams
  - [x] Significant Natural Communities
    - Natural Communities Near This Location
  - [x] Rare Plants or Animals
  - [ ] Base Flood Elevation Plus 72/75 Inches Sea-level Rise
- Other Wetland Layers
- Reference Layers
- Tell Me More...
- Need A Permit?
- Contacts



IPaC **U.S. Fish & Wildlife Service**

Endangered Species Act Review

Step 1: Request an official species list

An official species list is a letter from the local U.S. Fish and Wildlife Service field office that assists in the evaluation of potential impacts of your project. It includes a list of species that should be considered under Section 7 of the Endangered Species Act, a project tracking number, and other pertinent information from the field office.

Does this project require an official species list?

☑ Yes, request a species list

Upon submitting this form, IPaC will provide a letter from the local U.S. Fish and Wildlife Service office containing a species list that fulfills the requirement listed above, a project tracking number, as well as other pertinent information from the local office.

The following information will be submitted to the U.S. Fish and Wildlife Service and will be part of the public record. All fields are required unless otherwise noted.

My contact information

Please provide your work contact information only. Personal information **should not** be provided.

Agency / organization type

Consultant

Full name

Morgan McBride

Street address

300 Kimball Drive

Floor 4 OPTIONAL

City

Parsippany

State

NJ

Zip

07054

Phone

(973) 560-4900

☐ Save this information to my profile

Project information

Project name

213 Meadow Street (Block 2591, Lots 1, 5, and 45), Brooklyn NY

Project description

Describe the location, size, scope, and timing of this project.

Please consider this a formal Freedom of Information Law (FOIL) request for records regarding buildings, construction, chemical spills, underground storage tanks (USTs), monitoring wells, groundwater sampling, asbestos abatement, radon, hazardous materials and any other documents that your department may have regarding the property at 213 Meadow Street (Block 2591 Lots 1, 5, and 45), Brooklyn NY.

Location



Lead agency

The agency responsible for conducting, permitting, or licensing this action.

☑ Use my contact agency / organization above

Classification

For internal reporting, help us classify the type of this project.

** Other **

I understand that I am providing this information so an official species list can be generated, based on data provided by my local U.S. Fish and Wildlife Service office for the project area that I entered.

The following authorizes the collection of the above information (5 U.S.C. 301; the Federal Records Act, 44 U.S.C. 3101; Homeland Security Act of 2002; Public Law 107-296, 6 U.S.C. 121; and Executive Order 9373) and will be maintained in accordance with the Privacy Act (5 U.S.C. 552a).

APPENDIX G

SITE PHOTOGRAPHS

LANGAN

Appendix G
Photographic Log
213 Meadow Street
Brooklyn, New York



Photo 1: View of the subject property, facing west.



Photo 2: Trucking storage lot located at the subject property, facing north.



Photo 3: View of the trucking repair area at the subject property, facing west.



Photo 4: Three 275-gallon aboveground storage tanks located in the trucking repair area at the subject property.



Photo 5: Degreaser and motor oil drum storage located in the trucking repair area at the subject property.



Photo 6: Degreaser and motor oil drum storage located in the trucking repair area at the subject property.



Photo 7: Out-of-service fuel oil AST located in the truck repair area at the subject property.



Photo 8: Location of the out-of-service fuel oil AST in the truck repair are at the subject property, facing west.



Photo 9: View of a rented portion of the subject property used for food truck storage, facing east.



Photo 10: View of a rented portion of the subject property used for food truck storage, facing west.



Photo 11: View of a rented portion of the subject property used for scaffolding storage, facing southeast.



Photo 12: View of a rented portion of the subject property used for scaffolding storage, facing south.



Photo 13: Adjacent property to the northeast portion of the subject property, facing southwest.



Photo 14: Adjacent property to the north of the subject property, facing northwest.



Photo 15: Adjacent property to the north of the subject property, facing north.



Photo 16: Adjacent property to the west of the subject property, facing west.



Photo 17: Adjacent property to the south of the subject property, facing south.



Photo 18: Adjacent property to the east of the subject property, facing east.

APPENDIX H

LANGAN RESUMES

MOLLY MATTERN

STAFF SCIENTIST

ENVIRONMENTAL ENGINEERING

Ms. Gutelius has over 4 years of environmental engineering, which includes conducting environmental site remediation at various industrial locations in New Jersey. Her specialties include environmental field sampling, construction oversight, data tabulation and analysis, and report composition. Ms. Gutelius is skilled in Groundwater Well Instillation / Monitoring, In-Situ Chemical Oxidation, and Low-Flow Sampling.



SELECTED PROJECTS

- 1010 Park Avenue, New York, NY
- 10-70 Western Avenue, Yonkers, NY
- 17th Street Development, New York, NY
- 2505 Bruckner Boulevard, Bronx, NY
- 291-307 Clay Pitts Road, New York, NY
- 363 Bond Street, Brooklyn, NY
- 450 Clermont Terrace Development, Union, NJ
- 460 West 42st Street, New York, NY
- 479 Degraw Street, Brooklyn, NY
- 530-548 West 53rd/543 West 52nd Street, New York, NY
- 861 Sloan Ave, Trenton, NJ
- Belleville Logistics Center, Belleville, NJ
- Brixmor, Tinton Falls, NJ
- Crow/Bryant Street Development, Brooklyn, NY
- Former BMS Campus, Hopewell, NJ
- Post & Shell, Long Island City, NY
- Wayfair Mold Abatement, Cranbury, NJ

EDUCATION

B.A., Environmental Science
Bucknell University

PROFESSIONAL REGISTRATION

40 Hour HAZWOPER – NJ

8 Hour HAZWOPPER – NJ

OSHA 10-Hour Training in Construction – NJ

AMANDA FORSBURG, CHMM

SENIOR PROJECT SCIENTIST

BROWNFIELD REDEVELOPMENT, DUE DILIGENCE AND SITE INVESTIGATION, REMEDIAL ACTIONS

Ms. Forsburg has 14 years of experience primarily focused on providing environmental support to redevelopment sites within the metropolitan New York area. She has experience with projects in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) and Spill Programs, New York City Office of Environmental Remediation (NYCOER) E-Designated and New York City Voluntary Cleanup Program (VCP) sites, and New York City Department of Environmental Protection (NYCDEP) remediation sites. Her field experience includes implementation and management of all phases of environmental projects involving soil, groundwater, and soil vapor contamination including Phase I inspections, Phase II site investigations, Remedial Investigations, and Remedial Actions.

During her tenure at Langan, Ms. Forsburg's experience has included schematic-, design-, and construction-phase project team involvement on numerous large scale construction projects requiring multi-disciplinary coordination and collaboration across different Langan teams and offices.

SELECTED PROJECTS

- 101 Murray Street, New York, NY (NYSDEC Spill Site, Multi-discipline)
- 110 University Place, New York, NY (NYSDEC Spill Site, Multi-discipline)
- 138 Willoughby Street, Brooklyn, NY (NYCOER E-Designation Site, Multi-discipline)
- 180 East 125th Street, New York, NY (NYCOER E-Designation Site, Multi-discipline)
- 1905 Surf Avenue, Brooklyn, NY (NYCOER E-Designation Site, Multi-discipline)
- 1921 Atlantic Avenue, Brooklyn, NY (NYSDEC BCP Site)
- 225 East 39th Street, New York, NY (NYCDEP Remediation Site, Multi-Discipline)
- 23-30 Borden Avenue, Queens, NY (NYSDEC BCP Site, Multi-discipline)
- 28-90 Review Avenue, Queens, NY (NYSDEC BCP Site, Multi-discipline)
- 280 West 155th Street, New York, NY (NYSDEC BCP Site, Multi-discipline)
- 311 West 42nd Street, New York, NY (NYCOER E-Designation Site, Multi-discipline)
- 363 and 365 Bond Street, Brooklyn, NY (NYSDEC BCP Site, Multi-discipline)
- 400 Park Avenue South, New York, NY (NYCOER E-Designation and VCP Site)
- 412 Greenwich Street, New York, NY (NYCOER E-Designation Site, Multi-discipline)



EDUCATION

B.A., Environmental Studies
Bucknell University

B.A., Environmental Geology
Bucknell University

PROFESSIONAL REGISTRATION

Certified Hazardous Materials Manager (CHMM)

OSHA 29 CFR 1910.120 Certification (HAZWOPER)

AFFILIATIONS

New Jersey Society of Women Environmental Professionals (NJSWEP) - MetroNet Committee

Association of Environmental and Engineering Geologists

Professional Women in Construction

Urban Land Institute, Norther New Jersey Chapter - Women's Leadership Initiative Co-Chair

- 42-50 24th Street, Queens, NY (NYSDEC Spill Site, Multi-discipline)
- 460 West 41st Street, New York, NY (NYCOER E-Designation Site, Multi-discipline)
- 505 West 19th Street, New York, NY (NYCOER E-Designation Site, Multi-discipline)
- 508 West 24th Street, New York, NY (NYCOER E-Designation and VCP Site, Multi-discipline)
- 525 West 52nd Street, New York, NY (NYCOER E-Designation Site, Multi-discipline)
- 53 West 53rd Street (MoMA Expansion), New York, NY (NYCOER E-Designation Site, Multi-discipline)
- 54 Crown Street, Brooklyn, NY (NYCOER E-Designation and VCP Site, Multi-discipline)
- 540 West 26th Street, New York, NY (NYSDEC Spill Site, Multi-discipline)
- 550 Tenth Avenue, New York, NY (NYCOER E-Designation Site, Multi-discipline)
- 68 Charlton Street, New York, NY (NYCOER E-Designation Site, Multi-discipline)
- Broome Street Parking Lot Site, New York, NY (NYSDEC BCP Site, Multi-discipline)
- Marble Collegiate Church Office Building, New York, NY (Multi-discipline)
- Norfolk Street Site, New York, NY (NYCOER E-Designation Site, Multi-discipline)

Steven Ciambruschini, PG, LEP

Principal/Vice President
Environmental Site Assessments/Investigations, Brownfield Remediation, UST Management



33 years in the industry ~ 28 years with Langan

Mr. Ciambruschini has over 30 years of experience in hydrogeologic and environmental investigations including management of environmental and geotechnical investigations relating to petroleum and chlorinated solvent spill sites, underground storage tank sites, manufactured gas plant sites, landfills, wastewater treatment facilities and industrial/commercial sites. His experience includes managing environmental compliance audits, remedial investigation, pre-acquisition due diligence and permitting assessment, feasibility studies and design, construction and operation of complex innovative remediation systems to treat, contain and recover contaminated soil and groundwater. These projects are managed under various NJDEP, PADEP, NYDEC, NYCDEP and CTDEP programs. Mr. Ciambruschini provides consultation to a diverse group of clients including private developers, utilities, retail and industrial facilities and is expert in assessing remediation options and funding options under various state and federal grant, loan and tax reimbursement programs including Brownfield programs.

Selected Projects

- Brodson Property, Montville NJ, (RCRA, NJDEP ACO Cleanup)
- Carroll Gardens, Brooklyn, NY (NY Brownfield, EPA Superfund, OER E-designated Site)
- Con Edison Appendix B Spill Sites - Various Locations, NY
- Former MGP Site, Brooklyn, NY (VCP Site)
- Extell Development, Hudson Yards, New York, NY (NYC E-designated, NYS Brownfield Site)
- Pan Graphics, Bergen County, NJ (ISRA, LSRP)
- New Jersey Turnpike General Environmental Services Contract, Various Sites, NJ
- Liberty Science Center, Jersey City, NJ (EO 215)
- Blue Back Square, West Hartford, CT (UST, Transfer Act, Brownfield)
- Hershey, Act II Investigation (PA VCP)
- Hershey, Naugatuck, CT (CT Transfer Act)
- Halby Chemical Sites, Various Sites, DE (CERCLA)
- Unisys, Middletown CT, (CT Transfer Act, Brownfield)
- Ryder Rental, Various Sites in CT (CT Transfer Act)
- St. Marks Avenue, Brooklyn, NY (Vapor Mitigation)
- Pan Graphics, Lodi, NJ (Eco Risk Assessment, LSRP)

Education

M.S., Geology
Montclair State University

M.A., Environmental Science
Montclair University

B.S., Environmental Science
Cook College, Rutgers University

Professional Registration

Professional Geologist (PG) in NY, DE, KY

Licensed Environmental Professional (LEP) in CT

Underground Storage Tank License in NJ

Affiliations

National Ground Water Association

Association of Ground Water Scientists and Engineers

American Association of Petroleum Geologists

Environmental Professionals of Connecticut

American Bar Association (ABA)

LANGAN

PHASE II ENVIRONMENTAL INVESTIGATION REPORT

for

213 Meadow Street
Block 2951, Lots 1, 5, and 45
Brooklyn, New York

Prepared For:

GO Quay, LLC
432 Park Avenue South, 2nd Floor
New York, NY 10016

Prepared By:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, New Jersey 07054
NJ Certificate of Authorization No: 24GA27996400

Amanda Forsburg, CHMM
Senior Project Scientist

Steven Ciambruschini, PG, LEP
Senior Principal / Senior Vice President

11 March 2022
100964202

LANGAN

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Appendix B – Soil Boring and Monitoring Well Construction Logs
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Appendix D – Laboratory Analytical Data Packages.
Appendix E – Data Usability Summary Reports (DUSRs)

1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) has prepared this report to document the results of a Phase II Environmental Investigation (Phase II EI) completed at the above referenced property. A site location map is provided as Figure 1. The investigation was completed to assess potential subsurface impacts at the site.

1.1 Site Description

The site is an approximately 56,200-square-foot property located at Block 2951, Lots 1, 5, and 45 in Brooklyn, New York. The property is mostly undeveloped with a small one-story structure located on Lot 45 and is currently occupied by Castle Demolition truck storage and repairs, food truck storage, and scaffolding storage areas. The project site is zoned M3-1 Heavy Manufacturing District.

The site is bound to the north by an undeveloped lot used for automobile junking and storage, followed by Ten Eyck Street and a one-story industrial/ manufacturing building; to the east by the undeveloped lot used for automobile junking and storage followed by Stewart Avenue and a two-story industrial/manufacturing building complex; to the south by Meadow Street followed by a two-story industrial/manufacturing building and parking areas; and, to the west by Varick Avenue followed by a two-story industrial/manufacturing waste management building and transfer station. The subject property is located within an area of dense industrial and manufacturing development on the city block bound by Ten Eyck Street to the north, Stewart Avenue to the east, Meadow Street to the south, and Varick Avenue to the west.

1.2 Historical Site Use

Sanborn Fire Insurance Maps were reviewed. According to the Sanborn Maps, the subject property was operated for oil truck parking, junk yards, and auto wrecking on the western portion of the property from 1965 through 2007 and as a solid waste transfer facility for yard waste and residential, institutional, and commercial waste from at least 2004 through 2012. Historical and current uses of surrounding sites includes a private garage with truck repair, paint room, gasoline tank, wire product manufacturing, an oil/fuel company, metals stamping, and metal products manufacturing between 1951 and 2007, a vinyl plastics company and a chemical products company with manufacturing

facilities between 1965 and 2007, gasoline storage between 1933 and 1988, auto wrecking between 1965 and 1977, an automobile repair facility (1933-1987), filling stations (1933-1968), and an oil terminal (1933-1968).

According to the City Directory Abstract, the subject property listings consist of auto wrecking and demolition and salvage companies.

The site is identified in the NY Spills database for a release reported to the department on 31 March 1994 and assigned NYSDEC Spill No. 9315532. According to the case narrative provided by EDR, a tank truck spilled approximately 5-gallons of diesel onto the concrete and clean up was in progress at the time the spill was reported. No additional information was provided and the spill was administratively closed on 31 March 1994.

1.3 Geological and Hydrogeological Conditions

Based on borings completed during the February 2022 Phase II EI, stratigraphy in the western portion of the site consists of a 1- to 2-foot-thick layer of concrete underlain by 4 to 6 feet of fill followed by sand, silty sand, and clay. The central portion of the site consists of a 6-foot layer of fill underlain by sand with no concrete present. The eastern portion of the site consists of a 2-foot-thick layer of concrete, underlain by a 6- to 15-foot layer of fill underlain by sand, silt, and clay. All borings were completed to approximately 20 feet below ground surface (bgs). The top of a peat layer was encountered between 18.5 and 19.5 feet bgs in the western and eastern portions of the site.

The "Surficial Geologic Map of New York" by the New York State Museum State Geological Survey indicates that the surficial geology at the site consists of till which is generally an impermeable layer comprised of poorly sorted and variably sized clasts. According to the "Bedrock and Engineering Geologic Maps of New York County" by Charles A. Baskerville the site is underlain by the Hartland Formation which consists of interbedded units of feldspar, schist, and amphibolite.

Groundwater was encountered between 9.5 feet bgs in LMW-1 and 11.5 feet bgs in LMW-4, completed during the Phase II EI. Based on site/area topography, groundwater flow is anticipated to be to the west, toward English Kills, a tributary of Newton Creek.

2.0 PHASE II ENVIRONMENTAL INVESTIGATION

Langan completed this Phase II investigation in February 2022 to assess if adverse subsurface environmental impacts have resulted from historical operations at the site and surrounding sites.

The investigation included the installation of seven soil borings, four groundwater monitoring wells, four soil vapor sampling points, and the collection of soil, groundwater, and soil vapor samples for laboratory analysis. The borings, monitoring wells, and soil vapor sample locations were biased towards the locations of historical auto wrecking operations and onsite ASTs and drum storage. All soil boring, monitoring well, and soil vapor sampling locations are shown on Figure 2.

2.1 Geophysical Utility Clearance

The geophysical utility clearance was completed on 3 February 2022 by Hager Richter Geoscience, Inc. of Fords, New Jersey using ground penetrating radar (GPR) and precision utility location (PUL). The purpose of the geophysical utility clearance was to identify any underground structures within the survey area and to clear the proposed soil boring locations for utilities. The clearance was completed in a 10-foot radius around six of the seven soil boring locations, as one soil boring location in Lot 5 was not accessible at the time of the survey.

Small unidentified buried objects were detected in the vicinity of LSB-3, LSB-4, and LSB-7. A possible electric utility was identified in the vicinity of LSB-2 and possible water lines were detected at LSB-5 and LSB-7. Based on these findings, boring locations were moved at least five feet from any suspected utility or unidentified buried object. The soil investigation at LSB-1 on Lot 5 was hand-cleared to 5 feet bgs prior to the start of drilling to confirm that no below ground utilities would be disturbed during the investigation activities. The geophysical survey report is provided as Attachment A.

2.2 Soil Investigation and Field Observations

On 3 and 4 February 2022, seven soil borings (LSB-1 through LSB-7) were completed by AARCO Environmental Services, Corp. (AARCO) of Lindenhurst, New York. The borings were completed to 20 feet bgs with a track-mounted Geoprobe® 7782DT direct push drill rig. Three soil borings (LSB-5 through LSB-7) were completed in the eastern portion of the Lot 45 footprint to assess

potential impacts from the drum storage area, three active 275-gallon ASTs, and one out-of-service AST. Three soil borings (LSB-1 through LSB-3) were completed across Lots 1 and 5 to assess potential impacts from historical auto wrecking and oil truck parking operations. One soil boring (LSB-4) was completed in the western portion of Lot 45 to assess general site conditions.

All soil boring locations are shown on Figure 2, soil sample analytical results are provided in Table 1 and summarized on Figure 3. Soil boring logs are provided in Attachment B and complete laboratory data packages are provided in Attachment D.

Continuous macrocore samples were collected to the bottom of each boring. Field screening of soil during sample collection for volatile organic compounds (VOCs) using a photo-ionization detector (PID) was completed during the installation of all seven soil borings and all soil samples were screened for visual or olfactory evidence of impacts. PID readings above background were detected up to 4.8 parts-per-million (ppm) at LSB-2 at 17 feet bgs, 7.9 ppm at LSB-4 at 4 feet bgs, 52.7 ppm at LSB-5 at 15.5 feet bgs, and up to 171 ppm at LSB-6 at 8 feet bgs. Odors were observed at all borings except for LSB-3. Staining was not observed in any soil borings completed as part of the Phase II EI.

Eleven soil samples were collected for chemical analysis during the Phase II EI. Three discrete soil samples were collected from LSB-3, two discrete soil samples were collected from LSB-1 and LSB-5, and one discrete soil sample was collected from LSB-2, LSB-4, LSB-6, and LSB-7. One sample was collected from the 2-foot interval with the highest PID screening results or physical evidence of impacts (i.e., odors). If no impacts were identified, soil samples were collected from within the fill layer. Soil samples were collected from the interval exhibiting the highest level of impacts as determined by PID screening results and odors from 4 to 6 feet bgs at LSB-1 and LSB-4, from 8 to 10 feet bgs at LSB-6, and from 15 to 17 feet bgs at LSB-5. Soil samples were collected from the fill layer from 2 to 4 feet bgs at LSB-1, LSB-2, LSB-3, and LSB-7, from 4 to 6 feet bgs at LSB-3, and from 4 to 7 feet bgs at LSB-5. One sample was collected from the 2-foot interval immediately above inferred groundwater from 8 to 10 feet bgs at LSB-3.

Soil samples were submitted to York Analytical Laboratories, Inc. (York) of Stratford, CT for NYSDEC Part 375-specified volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, polychlorinated

biphenyls (PCBs), herbicides, target analyte list (TAL) metals, total cyanide, trivalent and hexavalent chromium, 1,4-dioxane, and perfluoroalkyl substances (PFAS). Four soil samples, LSB-1 from 2 to 4 feet bgs, LSB-3 from 4 to 6 feet and 8 to 10 feet bgs, and LSB-5 from 4 to 7 feet were analyzed for polycyclic aromatic hydrocarbons (PAHs) and TAL Metals, only.

Soil Sampling Quality Assurance/Quality Control

All soil sampling devices were properly decontaminated according to NYSDEC and ASTM (ASTM D-5088-90) guidelines prior to each sampling location. Each macrocore was lined with a dedicated acetate liner prior to the collection of each 5-foot-long soil sample collected in the use of the Geoprobe® 7782DT. Soil samples were then placed in glass jars supplied by the laboratory. Soil samples collected for VOCs were obtained via a plunger calibrated to collect approximately 5 grams of soil and then placed in a vial that was preserved with methanol or distilled water.

Each soil sample was recorded in a field log book. Samples were transferred to the laboratory immediately after field sampling was completed and were stored at a maximum of 4° Celsius. Chain-of-custody forms were utilized to document custody for the acquisition, possession, and analysis.

Quality assurance (trip blanks) and quality control samples (field blanks, equipment blanks, and duplicate samples) were incorporated into the sampling event and consisted of one field blank, one duplicate sample, three equipment blanks, and two trip blanks during the Phase II EI. The Phase II EI soil duplicate and field blank sample were analyzed for VOCs, SVOCs, PCBs, pesticides, herbicides, TAL metals, hexavalent chromium, total cyanide, PFAS, and 1,4-dioxane. The equipment blanks were analyzed for PFAS and 1,4-dioxane only. The trip blank samples were analyzed for VOCs only.

2.3 Groundwater Investigation and Field Observations

On 3 and 4 February 2022, four groundwater monitoring wells (LMW-1 through LMW-4) were installed by a licensed well driller from AARCO. Monitoring wells were completed to approximately 20 feet bgs at all four locations. LMW-1 was installed at LSB-2 to assess for impacts from oil truck parking. LMW-2 was installed at LSB-4, to assess general site conditions. LMW-3 and LMW-4, installed at LSB-5 and LSB-6 respectively, were installed to assess impacts from onsite ASTs and drum storage in Lot 45. The monitoring wells were

constructed with 10 feet of 2-inch diameter Schedule 40 PVC well screen and 10 feet of 2-inch diameter PVC riser. Monitoring well locations were measured in the field from the nearest property boundary and are shown on Figure 2. Monitoring well construction logs are provided in Attachment B.

Groundwater levels were measured prior to sampling with an oil/water interface probe. Light non-aqueous phase liquid (LNAPL) was not detected in any of the groundwater monitoring wells and groundwater was measured to be approximately 9.5 feet bgs in monitoring wells LMW-1 and 11.5 feet bgs in monitoring well LMW-4.

On 7 and 8 February 2022, four groundwater samples (LMW-1 through LMW-4) were collected for chemical analysis via United States Environmental Protection Agency (USEPA) low-flow purging and sampling methods using dedicated polyethylene tubing and a peristaltic pump at each location. Groundwater field parameters, including pH, specific conductivity, dissolved oxygen, oxidation-reduction potential, temperature, and turbidity were measured during low-flow purging activities at the remaining wells during purging activities. No evidence of sheen, or free product were observed during purging or sampling activities in any of the wells. Odors were observed at LMW-3 and LMW-4 during the beginning purging. Groundwater analytical results are provided in Table 2 and are summarized on Figure 4. Low-flow groundwater sampling logs are provided in Attachment C and a complete laboratory data package is provided in Attachment D.

Groundwater samples were submitted to York for NYSDEC Part 375-specified VOCs, SVOCs, PCBs, pesticides, herbicides, TAL metals, hexavalent chromium, total cyanide, PFAS, and 1,4-dioxane analysis.

Groundwater Sampling Quality Assurance/Quality Control

Collected groundwater samples were placed in containers supplied by the laboratory with the appropriate preservatives. Each groundwater sample was recorded in a field log book. Samples were transferred to the laboratory immediately after field sampling was completed and were stored prior to submission to the laboratory at a maximum of 4° Celsius. Chain-of-custody forms were utilized to document custody for the acquisition, possession, and analysis.

Quality assurance (trip blanks) and quality control samples (field blank and duplicate samples) were incorporated into the sampling event and consisted of one field blank, two trip blanks, two equipment blanks, and one duplicate sample for groundwater samples collected during the Phase II EI. The groundwater field blank and duplicate samples were analyzed for VOCs, SVOCs, PCBs, pesticides, herbicides, TAL metals, hexavalent chromium, total cyanide, PFAS, and 1,4-dioxane. The equipment blanks were analyzed for PFAS and 1,4-dioxane. The trip blank was analyzed for VOCs only.

2.4 Soil Vapor Investigation and Field Observations

On 8 February 2022, four soil vapor sampling points (LSV-1 through LSV-4) were installed and five soil vapor samples, including one duplicate sample, were collected for chemical analysis during the Phase II EI. Soil vapor sampling locations are shown on Figure 2. LSV-1 was installed adjacent to LSB-1 and LSV-2 was installed adjacent to LSB-2 to assess historical site operations. LSV-3 was installed adjacent to LSB-4 to assess general site conditions. LSV-4 was installed adjacent to LSB-6 to assess for impacts from the onsite ASTs.

Soil vapor sampling points were installed approximately 2-feet above the observed groundwater interface as measured in the installed monitoring wells. Soil vapor sampling logs are included in Attachment C. Methodologies used for soil vapor assessment conform to the NYSDOH Final Guidance on Soil Vapor Intrusion, October 2006.

Temporary soil vapor sampling points were installed using Teflon-lined polyethylene tubing connected to a dedicated expendable six-inch stainless steel screen. Quartz filter media was used to backfill the screened interval followed by No. 2 sand to approximately 0.5-feet above the screened interval followed by a hydrated granular bentonite clay to the ground surface. Each soil vapor sampling location was sealed at the surface with hydrated bentonite clay.

Each soil vapor sampling point was tightness tested using the helium tracer gas method and purged at a flow-rate of <200-ml per minute. No evidence of helium breakthrough (i.e., helium concentrations above 5%) was observed in any of the sample locations prior to sample collection. PID readings for VOCs ranging from 32 ppb in LSV-3 to 580 ppb in LSV-4 were observed during field screening at each location.

Soil Vapor Sampling Quality Assurance/Quality Control

Soil vapor samples were collected in laboratory-cleaned and certified evacuated 6-Liter stainless steel summa canisters with regulators supplied by York. The regulators were set to collect each sample over a 2-hour sampling period (a flow rate of <200-ml per minute) as per USEPA soil vapor sampling guidance. Each soil vapor sample was numbered and recorded in a field log book. Samples were transferred to the laboratory immediately after field sampling was completed and stored at a maximum room temperature of 30° Celsius. Chain-of-custody forms were utilized to document custody for the acquisition, possession, and analysis.

A quality control sample was incorporated into the sampling event and consisted of one duplicate sample submitted for VOC analysis.

3.0 PHASE II ENVIRONMENTAL INVESTIGATION FINDINGS

Soil, groundwater, and soil vapor samples collected during this Phase II, including all QA/QC samples, were submitted to York for the analyses listed above. Soil sample laboratory analytical results were compared to NYSDEC Protection of Groundwater Soil Cleanup Objectives (SCOs), Commercial Restricted Use SCOs (RUSCOs), and Industrial RUSCOs. Groundwater sample laboratory analytical results were compared to NYSDEC Ambient Water Quality Standards and Guidance Value (SGVs). Soil vapor laboratory analytical results were compared to NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion Matrices A through C dated October 2006 and revised in May 2017. Soil, groundwater, and soil vapor analytical results are summarized in Tables 1, 2 and 3, respectively. Laboratory analytical data packages are included in Appendix D.

3.1 Soil Analytical Results

All soil analytical results were compared to the NYSDEC Protection of Groundwater SCOs, Commercial RUSCOs, and Industrial RUSCOs and are presented in Table 1 and summarized on Figure 3. Sample depths are identified as depth below ground surface (bgs).

VOCs

Acetone (0.067 mg/kg), a common laboratory artifact, was detected in exceedance of the Protection of Groundwater SCO in the sample collected from 15 to 17 feet bgs in LSB-5.

SVOCs

Analytical results revealed exceedances of the NYSDEC Commercial RUSCOs, Industrial RUSCOs, and/or Protection of Groundwater SCOs for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and dibenzo(a,h)anthracene, in LSB-2, LSB-3, and LSB-7 from 2 to 4 feet bgs, in LSB-4 from 4 to 6 feet bgs, in LSB-5 from 4 to 7 feet bgs, and in LSB-3 from 8 to 10 feet bgs.

- Exceedances of Protection of Groundwater SCOs include benzo(a)anthracene (1.61 mg/kg – 11.6 mg/kg), benzo(b)fluoranthene (2.68 mg/kg – 7.91 mg/kg), benzo(k)fluoranthene (2.65 mg/kg – 7.8 mg/kg), and chrysene (1.02 mg/kg – 11.7 mg/kg).
- Exceedances of Commercial RUSCOs include benzo(a)anthracene (10.3 mg/kg – 11.6 mg/kg), benzo(a)pyrene (1.49 mg/kg – 9.58 mg/kg), benzo(b)fluoranthene (6.54 mg/kg – 7.91 mg/kg), and dibenzo(a,h)anthracene (0.772 mg/kg – 1.31 mg/kg).
- Exceedances of the Industrial RUSCOs include benzo(a)anthracene (11.6 mg/kg), benzo(a)pyrene (1.49 mg/kg – 9.58 mg/kg), and dibenzo(a,h)anthracene (1.31 mg/kg).

Metals

Analytical results revealed exceedances of the NYSDEC Commercial RUSCOs, Industrial RUSCOs, and/or Protection of Groundwater SCOs for arsenic, barium, copper, lead, and mercury in LSB-1, LSB-2, and LSB-3 from 2 to 4 feet bgs, in LSB-3 from 4 to 6 feet bgs, in LSB-5 from 4 to 7 feet bgs, and in LSB-6 from 8 to 10 feet bgs.

- Exceedances of Protection of Groundwater SCOs include arsenic (32.3 mg/kg – 41.8 mg/kg), barium (1,140 mg/kg), lead (531 mg/kg – 1,420 mg/kg), and mercury (0.868 mg/kg – 1.25 mg/kg).
- Commercial RUSCOs exceedances include arsenic (32.3 mg/kg – 41.8 mg/kg), barium (452 mg/kg – 1,140 mg/kg), copper (303 mg/kg – 445 mg/kg), and lead (1,420 mg/kg).
- Exceedances of the Industrial RUSCOs include arsenic (32.3 mg/kg – 41.8 mg/kg).

PFAS

Perfluorooctanesulfonic Acid (PFOS) (0.0107 mg/kg) was detected in exceedance of the proposed regulatory Protection of Groundwater SCO identified in the Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs dated June 2021 in the sample collected from 4 to 6 feet bgs in LSB-4.

No exceedances of the NYSDEC Commercial RUSCOs, Industrial RUSCOs, or Protection of Groundwater SCOs were detected for PCBs, pesticides, and herbicides.

3.2 Groundwater Analytical Results

All groundwater analytical results were compared to the NYSDEC Ambient Water Quality Standards and Guidance Value (SGVs) and are presented in Table 2 and summarized on Figure 4.

VOCs

Analytical results revealed exceedances of the NYSDEC SGVs for the VOC acetone (127 µg/l), a common laboratory artifact, in LMW-1.

SVOCs

Analytical results revealed exceedances of the NYSDEC SGVs for the SVOCs benzo(a)anthracene (0.0778 µg/l – 0.5 µg/l), benzo(a)pyrene (0.0778 µg/l – 0.48 µg/l), benzo(b)fluoranthene (0.0667 µg/l – 0.39 µg/l), benzo(k)fluoranthene (0.0667 µg/l – 0.38 µg/l), and chrysene (0.0778 µg/l – 0.59 µg/l) in LMW-1 and LMW-4 and indeno(1,2,3-cd)pyrene (0.3 µg/l) in LMW-1.

Metals

Analytical results revealed exceedances of the NYSDEC SGVs for metals in all four monitoring wells including lead (31.3 µg/l – 92.5 µg/l), magnesium (42,500 µg/l – 94,500 µg/l), manganese (774 µg/l – 1,030 µg/l), and sodium (53,200 µg/l – 412,000 µg/l).

PFAS

Analytical results revealed exceedances of the screening values provided in the Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs (June 2021) in all four monitoring wells including PFOS (0.0794 µg/l – 0.115 µg/l) and perfluorooctanoic acid (PFOA) (0.0608 µg/l – 0.135 µg/l).

No exceedances of the NYSDEC SGVs were detected for PCBs, pesticides, or herbicides.

3.3 Soil Vapor Analytical Results

All soil vapor analytical results were compared to the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion Matrices A through C dated October 2006 and

revised in May 2017. These results are presented in Table 3 and summarized on Figure 5.

The following compounds are included in the decision matrices in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion:

- Carbon tetrachloride
- 1,1,1-Trichloroethane (1,1,1-TCA)
- cis-1,2-DCE
- Methylene chloride
- TCE
- PCE
- 1,1-Dichloroethene (1,1-DCE)
- Vinyl Chloride

Concentrations of 1,1,1-TCA, 1,1-DCE, cis-1,2-DCE, PCE, and vinyl chloride were not detected in any of the soil vapor samples collected. The following VOCs were detected in soil vapor samples collected across the site:

- Carbon tetrachloride, with a concentration of 0.279 µg/m^3;
- Methylene chloride, with concentrations ranging from 4.67 µg/m^3 to 6.20 µg/m^3; and,
- TCE, with a concentration of 0.397 µg/m^3.

Comparison of these results to the applicable NYSDOH Guidance Values did not reveal detections at concentrations that would require mitigation.

3.4 Data Usability Summary Reports (DUSRs)

DUSRs were prepared for data collected during the investigation. The DUSRs were prepared in accordance with DER-10 and reviewed by Langan's in-house validator before issuance. The DUSRs present the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain of custody procedures, and a summary assessment of deficiencies for each analytical method. DUSRs are provided in Appendix E.

All data are considered usable, as qualified. Some data qualifiers were appended to the reported results, which have been included in the respective data summary tables (Tables 1 through 3).

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the analytical results of the Phase II EI, the presence of contaminated fill was detected in soil samples collected to a depth of 10 feet on the western side of the site, 4 feet bgs in the central portion of the site, and to 10 feet bgs on the eastern side of the site (acetone, a common laboratory artifact, was detected at 17 feet bgs on the eastern side of the site). Elevated concentrations of SVOCs and/or metals above the Protection of Groundwater SCOs and/or Commercial and Industrial RUSCOs at each of the 7 soil boring locations.

SVOCs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and/or dibenzo(a,h)anthracene were detected in all borings except LSB-1 and LSB-6 above the Commercial RUSCOs, Protection of Groundwater and/or Restricted Industrial RUSCOs. Metals including arsenic, barium, copper, lead and/or mercury were detected in all soil borings except LSB-4 and LSB-7 at concentrations exceeding the Commercial RUSCOs, Protection of Groundwater SCOs, and/or Industrial RUSCOs. PFOS was detected at LSB-4 above the proposed regulatory Unrestricted Use SCOs, Protection of Groundwater RUSCOs and may be attributed to historical site operations or an unknown off-site source. Petroleum- or solvent-related VOCs, herbicides, pesticides, and PCBs were not detected above the SCOs in any of the soil samples collected, but odors were detected in all of the borings except one and elevated PID readings were also detected, suggesting that weathered petroleum contamination, nuisance soil conditions, or additional contamination may be present.

Metals, including lead, magnesium, manganese, and/or sodium, were detected in exceedance of the NYSDEC SGVs in all four monitoring wells (LMW-1 through LMW-4). Detections of total lead in groundwater is likely attributable to sediment entrainment in the samples; the remaining metals detected above the SGVs are likely the result of natural background conditions. SVOCs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and indeno(1,2,3-cd)pyrene were detected in LMW-1 and LMW-4. PFOS and PFOA was detected in all four monitoring wells above the NYSDEC screening values and may be attributed to historical site operations or an unknown off-site source. Petroleum- or solvent-related VOCs, herbicides, pesticides, and PCBs were not detected above the SGVs in any of the groundwater samples collected. Odors were also detected in two wells.

Three out of the eight chlorinated VOCs that are listed in the New York State Department of Health (NYSDOH) Vapor Intrusion Guidance Decision Matrices were detected at concentrations below those that would require monitoring or mitigation when compared

against the matrices screening levels. Based on the soil and groundwater analytical results, the presence of fill contaminated with metals, SVOCs, and PFAS up to 10 feet bgs was identified. The presence of contaminated fill will require special handling and disposal requirements during disturbance of this material during future site work.

Field observations during the Phase II EI included odors, which were detected in all soil borings with the exception of LSB-3. Odors were observed between 3 and 6 feet bgs on the western and in the central portion of the site and from the surface to 20 feet bgs on the eastern side of the site. The highest PID readings were also detected on the eastern side of the site, ranging from 15.9 ppm to 171 ppm between 5.5 and 17 feet bgs in LSB-5 and LSB-6, which were advanced in the vicinity of the drum storage area and the 275-gallon ASTs, respectively. Odors were also observed at the beginning of purging the monitoring wells installed at these locations (LMW-3 and LMW-4). Although the laboratory analytical results did not identify evidence of a petroleum release in soil or groundwater, the quality of fill or historical surficial spills may have contributed to the presence of degraded petroleum compounds in the subsurface as observed by olfactory observations and PID detections. Degraded petroleum and the presence of peat observed between 18.5 and 19.5 feet bgs may also potentially contribute to the presence of methane in these layers.

This Phase II EI was limited in scope and additional areas of impacts may exist at the site that may be encountered as part of any redevelopment activities. If encountered, additional areas of impacts would require additional investigation to determine the nature and extent of these impacts.

TABLES

Table 1
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

213 Meadow Street
Brooklyn, NY
Langan Project No.: 100964202

Analyte	CAS Number	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	NYSDEC Part 375 Restricted Use Industrial SCOs	Location	LSB-1	LSB-1	LSB-2	LSB-3	LSB-3	LSB-3	LSB-4	LSB-5	LSB-5	LSB-6	LSB-7	LSB-7
					Sample Name	015_LSB-1_2-4	016_LSB-1_4-6	001_LSB-2_2-4	003_LSB-3_2-4	004_LSB-3_4-6	005_LSB-3_8-10	008_LSB-4_4-6	023_LSB-5_4-7	025_LSB-5_15-17	022_LSB-6_8-10	026_LSB-7_2-4	029_DUP-1
					Sample Date	02/04/2022	02/04/2022	02/03/2022	02/03/2022	02/03/2022	02/03/2022	02/03/2022	02/04/2022	02/04/2022	02/04/2022	02/04/2022	02/04/2022
					Sample Depth	2-4	4-6	2-4	2-4	4-6	8-10	4-6	4-7	15-17	8-10	2-4	2-4
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																	
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,1,1-Trichloroethane	71-55-6	0.68	500	1000	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,1-Dichloroethane	75-34-3	0.27	240	480	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,1-Dichloroethene	75-35-4	0.33	500	1000	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 UJ	<0.0026 UJ	NA	NA	<0.0027 UJ	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,2,4-Trimethylbenzene	95-63-6	3.6	190	380	mg/kg	NA	0.0089	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,2-Dichlorobenzene	95-50-1	1.1	500	1000	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,2-Dichloroethane	107-06-2	0.02	30	60	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	190	380	mg/kg	NA	0.0034 J	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,3-Dichlorobenzene	541-73-1	2.4	280	560	mg/kg	NA	<0.0023 U	<0.0021 UJ	<0.0026 UJ	NA	NA	<0.0027 UJ	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,4-Dichlorobenzene	106-46-7	1.8	130	250	mg/kg	NA	<0.0023 U	<0.0021 UJ	<0.0026 UJ	NA	NA	<0.0027 UJ	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	130	250	mg/kg	NA	<0.046 U	<0.043 U	<0.052 U	NA	NA	<0.054 U	NA	<0.056 U	<0.042 U	<0.042 U	<0.066 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Acetone	67-64-1	**0.05**	500	1000	mg/kg	NA	0.027	0.035	0.031	NA	NA	0.017	NA	**0.067**	0.033	<0.0042 U	<0.0066 U
Acrolein	107-02-8	NS	NS	NS	mg/kg	NA	<0.0046 U	<0.0043 U	<0.0052 U	NA	NA	<0.0054 U	NA	<0.0056 U	<0.0042 U	<0.0042 U	<0.0066 U
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Benzene	71-43-2	0.06	44	89	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Bromomethane	74-83-9	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	0.033	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Carbon Tetrachloride	56-23-5	0.76	22	44	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Chlorobenzene	108-90-7	1.1	500	1000	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Chloroethane	75-00-3	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Chloroform	67-66-3	0.37	350	700	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Chloromethane	74-87-3	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Cis-1,2-Dichloroethene	156-59-2	0.25	500	1000	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Cyclohexane	110-82-7	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Ethylbenzene	100-41-4	1	390	780	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 UJ	<0.0026 UJ	NA	NA	<0.0027 UJ	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	NA	0.0066	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	NA	<0.0046 U	<0.0043 U	<0.0052 U	NA	NA	<0.0054 U	NA	<0.0056 U	<0.0042 U	<0.0042 U	<0.0066 U
Methyl Acetate	79-20-9	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	0.004 J	<0.0021 U	<0.0021 U	<0.0033 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	500	1000	mg/kg	NA	0.0086	0.0097	0.0066	NA	NA	0.0028 J	NA	0.014	0.011	<0.0021 U	<0.0033 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Methylcyclohexane	108-87-2	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Methylene Chloride	75-09-2	0.05	500	1000	mg/kg	NA	<0.0091 U	<0.0043 U	<0.0052 U	NA	NA	<0.0054 U	NA	<0.011 U	<0.0042 U	<0.0084 U	<0.0066 U
n-Butylbenzene	104-51-8	12	500	1000	mg/kg	NA	0.0058	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
n-Propylbenzene	103-65-1	3.9	500	1000	mg/kg	NA	0.0074	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Sec-Butylbenzene	135-98-8	11	500	1000	mg/kg	NA	0.0071	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Styrene	100-42-5	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
T-Butylbenzene	98-06-6	5.9	500	1000	mg/kg	NA	<0.0023 U	<0.0021 UJ	<0.0026 UJ	NA	NA	<0.0027 UJ	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Tert-Butyl Alcohol	75-65-0	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	500	1000	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Tetrachloroethene (PCE)	127-18-4	1.3	150	300	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 UJ	<0.0021 U	<0.0021 UJ	<0.0033 UJ
Toluene	108-88-3	0.7	500	1000	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Total Xylenes	1330-20-7	1.6	500	1000	mg/kg	NA	<0.0068 U	<0.0064 U	<0.0077 U	NA	NA	<0.0082 U	NA	<0.0084 U	<0.0063 U	<0.0063 U	<0.0099 U
Trans-1,2-Dichloroethene	156-60-5	0.19	500	1000	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Trichloroethene (TCE)	79-01-6	0.47	200	400	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U
Vinyl Chloride	75-01-4	0.02	13	27	mg/kg	NA	<0.0023 U	<0.0021 U	<0.0026 U	NA	NA	<0.0027 U	NA	<0.0028 U	<0.0021 U	<0.0021 U	<0.0033 U

Table 1
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

213 Meadow Street
Brooklyn, NY
Langan Project No.: 100964202

Analyte	CAS Number	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	NYSDEC Part 375 Restricted Use Industrial SCOs	Location	LSB-1	LSB-1	LSB-2	LSB-3	LSB-3	LSB-3	LSB-4	LSB-5	LSB-5	LSB-6	LSB-7	LSB-7
					Sample Name	015_LSB-1_2-4	016_LSB-1_4-6	001_LSB-2_2-4	003_LSB-3_2-4	004_LSB-3_4-6	005_LSB-3_8-10	008_LSB-4_4-6	023_LSB-5_4-7	025_LSB-5_15-17	022_LSB-6_8-10	026_LSB-7_2-4	029_DUP-1
					Sample Date	02/04/2022	02/04/2022	02/03/2022	02/03/2022	02/03/2022	02/03/2022	02/03/2022	02/04/2022	02/04/2022	02/04/2022	02/04/2022	02/04/2022
					Sample Depth	2-4	4-6	2-4	2-4	4-6	8-10	4-6	4-7	15-17	8-10	2-4	2-4
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	NA	<0.104 U	<0.1 U	<0.0995 U	NA	NA	<0.107 U	NA	<0.0936 U	<0.0974 U	<0.466 U	<0.469 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
1,2-Dichlorobenzene	95-50-1	1.1	500	1000	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
1,2-Diphenylhydrazine	122-66-7	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
1,3-Dichlorobenzene	541-73-1	2.4	280	560	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
1,4-Dichlorobenzene	106-46-7	1.8	130	250	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	130	250	mg/kg	NA	<0.0198 U	<0.0192 U	<0.0194 U	NA	NA	<0.0192 U	NA	<0.0185 U	<0.0187 U	<0.0194 U	<0.0185 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	mg/kg	NA	<0.104 U	<0.1 U	<0.0995 U	NA	NA	<0.107 U	NA	<0.0936 U	<0.0974 U	<0.466 U	<0.469 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	NA	<0.104 U	<0.1 UJ	<0.0995 UJ	NA	NA	<0.107 UJ	NA	<0.0936 U	<0.0974 U	<0.466 U	<0.469 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	<0.048 U	0.0776 JD	1.03 D	0.0621 JD	<0.0457 U	0.113 D	<0.0537 U	<0.0508 U	<0.0469 U	<0.0488 U	0.772 D	1.81 D
2-Methylphenol (o-Cresol)	95-48-7	0.33	500	1000	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	NA	<0.104 U	<0.1 U	<0.0995 U	NA	NA	<0.107 U	NA	<0.0936 U	<0.0974 U	<0.466 U	<0.469 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	500	1000	mg/kg	NA	<0.0523 U	0.073 JD	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	NA	<0.104 U	<0.1 U	<0.0995 U	NA	NA	<0.107 U	NA	<0.0936 U	<0.0974 U	<0.466 U	<0.469 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	NA	<0.104 U	<0.1 UJ	<0.0995 UJ	NA	NA	<0.107 UJ	NA	<0.0936 U	<0.0974 U	<0.466 U	<0.469 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	NA	<0.104 U	<0.1 U	<0.0995 U	NA	NA	<0.107 U	NA	<0.0936 U	<0.0974 U	<0.466 U	<0.469 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	NA	<0.104 U	<0.1 U	<0.0995 U	NA	NA	<0.107 U	NA	<0.0936 U	<0.0974 U	<0.466 U	<0.469 U
Acenaphthene	83-32-9	98	500	1000	mg/kg	<0.048 U	0.126 D	2.24 D	0.0851 JD	0.13 D	0.383 D	0.771 D	0.148 D	<0.0469 U	<0.0488 U	4.55 D	2.75 D
Acenaphthylene	208-96-8	107	500	1000	mg/kg	<0.048 U	0.0935 JD	1.07 D	0.074 JD	<0.0457 U	<0.0481 U	0.0539 JD	0.0997 JD	<0.0469 U	<0.0488 U	1.38 D	0.413 JD
Acetophenone	98-86-2	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	NS	NS	mg/kg	NA	<0.209 U	<0.201 U	<0.199 U	NA	NA	<0.214 U	NA	<0.187 U	<0.195 U	<0.934 U	<0.94 U
Anthracene	120-12-7	1000	500	1000	mg/kg	<0.048 U	0.197 D	5.52 D	0.253 D	0.522 D	0.489 D	2.67 D	0.449 D	<0.0469 U	<0.0488 U	6.9 D	5.14 D
Atrazine	1912-24-9	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Benzaldehyde	100-52-7	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Benzidine	92-87-5	NS	NS	NS	mg/kg	NA	<0.209 U	<0.201 U	<0.199 U	NA	NA	<0.214 U	NA	<0.187 U	<0.195 U	<0.934 U	<0.94 U
Benzo(a)anthracene	56-55-3	**1**	5.6	11	mg/kg	<0.048 U	0.322 D	**10.3 D**	0.944 D	0.778 D	**5.09 D**	**3.97 D**	**1.61 D**	<0.0469 U	0.0623 JD	**11.6 D**	**7.76 D**
Benzo(a)pyrene	50-32-8	22	1	1.1	mg/kg	<0.048 U	0.343 D	7.76 D	0.952 D	0.676 D	0.922 D	3.01 D	1.49 D	<0.0469 U	0.0716 JD	9.58 D	8.35 D
Benzo(b)fluoranthene	205-99-2	**1.7**	5.6	11	mg/kg	<0.048 U	0.28 D	**6.54 D**	0.741 D	0.448 D	**3.62 D**	**2.68 D**	1.25 D	<0.0469 U	0.0615 JD	**7.91 D**	**5.93 D**
Benzo(g,h,i)Perylene	191-24-2	1000	500	1000	mg/kg	<0.048 U	0.144 D	3.94 D	0.606 D	0.354 D	2.89 D	1.93 D	1.19 D	<0.0469 U	<0.0488 U	3.89 D	3.72 D
Benzo(k)fluoranthene	207-08-9	**1.7**	56	110	mg/kg	<0.048 U	0.255 D	**6.45 D**	0.73 D	0.538 D	**3.57 D**	**2.65 D**	1.23 D	<0.0469 U	0.0599 JD	**7.8 D**	**5.92 D**
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 UJ	<0.0499 UJ	NA	NA	<0.0537 UJ	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	0.75 D	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	NA	<0.0523 U	0.0513 JD	<0.0499 U	NA	NA	4.24 D	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Caprolactam	105-60-2	NS	NS	NS	mg/kg	NA	<0.104 U	<0.1 U	<0.0995 U	NA	NA	<0.107 U	NA	<0.0936 U	<0.0974 U	<0.466 U	<0.469 U
Carbazole	86-74-8	NS	NS	NS	mg/kg	NA	<0.0523 U	0.955 D	0.0644 JD	NA	NA	0.741 D	NA	<0.0469 U	<0.0488 U	3.45 D	2.31 D
Chrysene	218-01-9	**1**	56	110	mg/kg	<0.048 U	0.303 D	**10.4 D**	**1.02 D**	0.73 D	**5.43 D**	**3.55 D**	**1.48 D**	<0.0469 U	0.0654 JD	**11.7 D**	**7.86 D**
Dibenz(a,h)anthracene	53-70-3	1000	0.56	1.1	mg/kg	<0.048 U	0.0609 JD	1.31 D	0.207 D	0.133 D	0.823 D	0.772 D	0.265 D	<0.0469 U	<0.0488 U	0.79 D	1.27 D
Dibenzofuran	132-64-9	210	350	1000	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	0.0941 JD	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Fluoranthene	206-44-0	1000	500	1000	mg/kg	<0.048 U	0.978 D	24.4 D	1.79 D	1.66 D	8.77 D	9.98 D	3.17 D	0.0636 JD	0.149 D	34 D	15.1 D
Fluorene	86-73-7	386	500	1000	mg/kg	<0.048 U	0.214 D	3.45 D	0.103 D	0.189 D	0.323 D	0.81 D	0.13 D	<0.0469 U	<0.0488 U	3.94 D	3.66 D
Hexachlorobenzene	118-74-1	3.2	6	12	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 UJ	<0.0499 UJ	NA	NA	<0.0537 UJ	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Indeno(1,2,3-cd)pyrene	193-39-5	8.2	5.6	11	mg/kg	<0.048 U	0.18 D	3.73 D	0.52 D	0.312 D	2.26 D	1.84 D	1.45 D	<0.0469 U	<0.0488 U	4.42 D	4.14 D
Isophorone	78-59-1	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Naphthalene	91-20-3	12	500	1000	mg/kg	<0.048 U	0.154 D	0.885 D	0.154 D	0.0525 JD	0.382 D	0.065 JD	<0.0508 U	<0.0469 U	<0.0488 U	1.57 D	5.01 D
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
n-Nitrosodimethylamine	62-75-9	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Pentachlorophenol	87-86-5	0.8	6.7	55	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Phenanthrene	85-01-8	1000	500	1000	mg/kg	<0.048 U	1.33 D	24.7 D	0.995 D	1.74 D	1.4 D	6.2 D	1.81 D	0.0733 JD	0.0747 JD	23.8 D	15.7 D
Phenol	108-95-2	0.33	500	1000	mg/kg	NA	<0.0523 U	<0.0503 U	<0.0499 U	NA	NA	<0.0537 U	NA	<0.0469 U	<0.0488 U	<0.234 U	<0.235 U
Pyrene	129-00-0	1000	500	1000	mg/kg	<0.048 U	0.734 D	22.7 D	1.78 D	1.84 D	8.1 D	7.73 D	2.81 D	0.0621 JD	0.113 D	18.3 D	9.72 D
Pyridine	110-86-1	NS	NS	NS	mg/kg	NA	<0.209 U	<0.201 U	<0.199 U	NA	NA	<0.214 U	NA	<0.187 U	<0.195 U	<0.934 U	<0.94 U

Table 1
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

213 Meadow Street
Brooklyn, NY
Langan Project No.: 100964202

Analyte	CAS Number	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	NYSDEC Part 375 Restricted Use Industrial SCOs	Location	LSB-1	LSB-1	LSB-2	LSB-3	LSB-3	LSB-3	LSB-4	LSB-5	LSB-5	LSB-6	LSB-7	LSB-7
					Sample Name	015_LSB-1_2-4	016_LSB-1_4-6	001_LSB-2_2-4	003_LSB-3_2-4	004_LSB-3_4-6	005_LSB-3_8-10	008_LSB-4_4-6	023_LSB-5_4-7	025_LSB-5_15-17	022_LSB-6_8-10	026_LSB-7_2-4	029_DUP-1
					Sample Date	02/04/2022	02/04/2022	02/03/2022	02/03/2022	02/03/2022	02/03/2022	02/03/2022	02/04/2022	02/04/2022	02/04/2022	02/04/2022	02/04/2022
					Sample Depth	2-4	4-6	2-4	2-4	4-6	8-10	4-6	4-7	15-17	8-10	2-4	2-4
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																	
4,4'-DDD	72-54-8	14	92	180	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
4,4'-DDE	72-55-9	17	62	120	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
4,4'-DDT	50-29-3	136	47	94	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Aldrin	309-00-2	0.19	0.68	1.4	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	3.4	6.8	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Alpha Chlordane	5103-71-9	2.9	24	47	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Alpha Endosulfan	959-98-8	102	200	920	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.09	3	14	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Beta Endosulfan	33213-65-9	102	200	920	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	NA	<0.042 U	<0.0398 U	<0.0393 U	NA	NA	<0.0419 U	NA	<0.0377 U	<0.0385 U	<0.0369 U	<0.0369 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.25	500	1000	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Dieldrin	60-57-1	0.1	1.4	2.8	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Endosulfan Sulfate	1031-07-8	1000	200	920	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Endrin	72-20-8	0.06	89	410	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Gamma Bhc (Lindane)	58-89-9	0.1	9.2	23	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Gamma-Chlordane	5566-34-7	NS	NS	NS	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Heptachlor	76-44-8	0.38	15	29	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	NA	<0.0021 U	<0.00199 U	<0.00196 U	NA	NA	<0.0021 U	NA	<0.00188 U	<0.00193 U	<0.00185 U	<0.00185 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	NA	<0.21 U	<0.199 U	<0.196 U	NA	NA	<0.21 U	NA	<0.188 U	<0.193 U	<0.185 U	<0.185 U
Herbicides																	
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	NA	<0.13 U	<0.0239 U	<0.0242 U	NA	NA	<0.0253 U	NA	<0.0229 U	<0.0239 U	<0.0224 U	<0.0224 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	NA	<0.13 U	<0.0239 U	<0.0242 U	NA	NA	<0.0253 U	NA	<0.0229 U	<0.0239 U	<0.0224 U	<0.0224 U
Silvex (2,4,5-Tp)	93-72-1	3.8	500	1000	mg/kg	NA	<0.13 U	<0.0239 U	<0.0242 U	NA	NA	<0.0253 U	NA	<0.0229 U	<0.0239 U	<0.0224 U	<0.0224 U
Polychlorinated Biphenyl																	
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	NA	<0.0212 U	<0.0201 UJ	<0.0198 UJ	NA	NA	<0.0212 UJ	NA	0.0246	<0.0195 U	<0.0186 U	<0.0186 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	NA	<0.0212 U	<0.0201 UJ	<0.0198 UJ	NA	NA	<0.0212 UJ	NA	<0.019 U	<0.0195 U	<0.0186 U	<0.0186 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	NA	<0.0212 U	<0.0201 UJ	<0.0198 UJ	NA	NA	<0.0212 UJ	NA	<0.019 U	<0.0195 U	<0.0186 U	<0.0186 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	NA	<0.0212 U	<0.0201 UJ	<0.0198 UJ	NA	NA	<0.0212 UJ	NA	<0.019 U	<0.0195 U	<0.0186 U	<0.0186 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	NA	<0.0212 U	<0.0201 UJ	<0.0198 UJ	NA	NA	<0.0212 UJ	NA	<0.019 U	<0.0195 U	<0.0186 U	<0.0186 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	NA	<0.0212 U	<0.0201 UJ	<0.0198 UJ	NA	NA	0.0754 J	NA	<0.019 U	<0.0195 U	<0.0186 U	<0.0186 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	NA	<0.0212 U	<0.0201 UJ	<0.0198 UJ	NA	NA	<0.0212 UJ	NA	<0.019 U	<0.0195 U	<0.0186 U	<0.0186 U
Total PCBs	1336-36-3	3.2	1	25	mg/kg	NA	<0.0212 U	<0.0201 UJ	<0.0198 UJ	NA	NA	0.0754 J	NA	0.0246	<0.0195 U	<0.0186 U	<0.0186 U
Metals																	
Aluminum	7429-90-5	NS	NS	NS	mg/kg	5,940	13,500	2,490	7,810	10,500	6,270	9,610	7,430	8,640	9,130	11,000	9,610
Antimony	7440-36-0	NS	NS	NS	mg/kg	11.9	<3.19 U	<3.06 U	<3.03 U	4.04	<2.9 U	<3.22 U	3.82	<2.87 U	19.1	<2.84 U	3.04
Arsenic	7440-38-2	**16**	16	16	mg/kg	**41.8**	<1.92 U	8.39	5.64	<1.69 U	2.64	4.77	11.7	<1.72 U	**32.3**	<1.71 U	<1.71 U
Barium	7440-39-3	**820**	400	10000	mg/kg	452	44.9 J	199 J	466 J	76.1	88.8	184 J	**1,140**	52.3 J	96.3 J	73.7 J	85.2 J
Beryllium	7440-41-7	47	590	2700	mg/kg	<0.058 U	<0.064 U	<0.061 U	<0.061 U	<0.056 U	<0.058 U	<0.064 U	<0.061 U	<0.057 U	<0.06 U	<0.057 U	<0.057 U
Cadmium	7440-43-9	7.5	9.3	60	mg/kg	2.96	<0.383 U	0.663 J	1.32 J	<0.338 U	<0.348 U	0.869 J	0.912	<0.345 U	1.52	<0.341 U	0.362
Calcium	7440-70-2	NS	NS	NS	mg/kg	25,300 B	2,070 B	11,200 B	15,900 B	5,930	2,780	50,100 B	23,600 B	8,310 B	9,880 B	3,510 B	3,870 B
Chromium, Hexavalent	18540-29-9	19	400	800	mg/kg	NA	<0.638 U	<0.612 U	<0.607 U	NA	NA	<0.644 U	NA	<0.574 U	<0.601 U	<0.569 U	<0.569 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	34.6	17.8	16	19.3	20.7	16	39.1	19	16	38.6	20.4	22.6
Chromium, Trivalent	16065-83-1	NS	1500	6800	mg/kg	NA	17.8	16	19.3	NA	NA	39.1	NA	16	38.6	20.4	22.6
Cobalt	7440-48-4	NS	NS	NS	mg/kg	12.1	6.28	3.39 J	7.64 J	10.9	6.92	8.78 J	9.72	7.33	27.2	8.22	9.07
Copper	7440-50-8	1720	270	10000	mg/kg	445	12.2 J	137	303	39.7	39.9	253	378	41 J	200 J	37 J	54 J
Cyanide	57-12-5	40	27	10000	mg/kg	NA	<0.638 U	<0.612 U	1.01	NA	NA	0.719	NA	<0.574 U	<0.601 U	<0.569 U	<0.569 U
Iron	7439-89-6	NS	NS	NS	mg/kg	109,000	16,200	16,300	26,400	23,100	14,900	18,100	27,400	19,400	176,000 D	19,900	19,600
Lead	7439-92-1	**450**	1000	3900	mg/kg	**1,420**	29.1	385	**531**	88.2	114	172	**741**	36	131	87.6	107
Magnesium	7439-95-4	NS	NS	NS	mg/kg	3,430	2,240	1,010	2,930	2,900	1,430	6,010	3,460	2,380	2,090	2,470	2,840
Manganese	7439-96-5	2000	10000	10000	mg/kg	629	181	145	268	629	294	350	359	487	1,080	308	353
Mercury	7439-97-6	**0.73**	2.8	5.7	mg/kg	0.544 J	0.692 J	**1.17**	**0.868**	**1.23**	0.632	0.0948	**1.25**	0.0955	0.163	0.556	0.469
Nickel	7440-02-0	130	310	10000	mg/kg	56.1 J	15.6 J	14.5 J	17.3 J	20.3	15.6	19.4 J	37.8 J	16.8 J	34.4 J	19.5 J	22.9 J
Potassium	7440-09-7	NS	NS	NS	mg/kg	1,020	1,210 B	437	1,590	1,540 B	993 B	1,510	1,110	1,060 B	686 B	1,260 B	1,320 B
Selenium	7782-49-2	4	1500	6800	mg/kg	<2.92 U	<3.19 U	<3.06 U	<3.03 U	<2.82 U	<2.9 U	<3.22 U	<3.05 U	<2.87 U	<3.01 U	<2.84 U	<2.84 U
Silver	7440-22-4	8.3	1500	6800	mg/kg	0.93	<0.638 U	2.05	<0.607 U	<0.563 U	<0.581 U	<0.644 U	<0.61 U	<0.574 U	<0.601 U	<0.569 U	<0.569 U
Sodium	7440-23-5	NS	NS	NS	mg/kg	441 J	214 J	196	386	221	206	347	303 J	138 J	132 J	301 J	357 J
Thallium	7440-28-0	NS	NS	NS	mg/kg	12.9	<3.19 U	<3.06 U	<3.03 U	<2.82 U	<2.9 U	<3.22 U	<3.05 U	<2.87 U	29.6	<2.84 U	<2.84 U
Vanadium	7440-62-2	NS	NS	NS	mg/kg	20.1	24.3	12.2	28.1	35.3	28.6	27.6	23.5	27	112	30.9	30.3
Zinc	7440-66-6	2480	10000	10000	mg/kg	1,310 B	31.6	275	873	53.7	56.5	257	625 B	43.9	75.4	85.4	97.9
General Chemistry																	
Solids, Percent	SOLID	NS	NS	NS	Percent	85.6	78.3	81.7	82.4	88.8	86.1	77.6	82	87.1	83.1	87.9	87.9
Perfluorooctanoic acids																	
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	0.00263	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	0.00108	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	0.000323	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	0.000392	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.001**	0.44	0.44	mg/kg	NA	<0.000318 U	0.000504	0.00042	NA	NA	**0.0107**	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.0008	0.5	0.6	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	0.000518	NA	<0.000271 U	<0.000297 U	0.000483	0.000336
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	NA	<0.000318 U	0.000346	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	NS	NS	mg/kg	NA	<0.000318 U	<0.000294 U	<0.000299 U	NA	NA	<0.000296 U	NA	<0.000271 U	<0.000297 U	<0.00028 U	<0.000268 U

Table 1
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

213 Meadow Street
Brooklyn, NY
Langan Project No.: 100964202

Notes:

CAS - Chemical Abstract Service
NS - No standard
mg/kg - milligram per kilogram
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Protection of Groundwater, Restricted Use Commercial, and Restricted Use Industrial Soil Cleanup Objectives (SCO).

Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) Protection of Groundwater, Restricted Use Commercial, and Restricted Use Industrial Guidance Values (April 2023).

Criterion comparisons for 3- & 4-methylphenol (m&p cresol) are provided for reference. Promulgated SCOs are for 3-methylphenol (m-cresol) and 4-methylphenol (p-cresol).

Qualifiers:

D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:

10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Commercial SCOs
10 - Result exceeds Restricted Use Industrial SCOs

Table 2
Phase II Environmental Investigation Report
Groundwater Sample Analytical Results

213 Meadow Street
Brooklyn, NY
Langan Project No.: 100964202

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	LMW-1	LMW-1	LMW-2	LMW-3	LMW-4
				Sample Name	032_LMW-1	033_DUP-2	034_LMW-2	041_LMW-3	040_LMW-4
				Sample Date	02/07/2022	02/07/2022	02/07/2022	02/08/2022	02/08/2022
				Unit	Result	Result	Result	Result	Result
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	630-20-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,1-Trichloroethane	71-55-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2,2-Tetrachloroethane	79-34-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2-Trichloroethane	79-00-5	1	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1-Dichloroethane	75-34-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1-Dichloroethene	75-35-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1-Dichloropropene	563-58-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,3-Trichlorobenzene	87-61-6	5	NS	ug/l	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ
1,2,3-Trichloropropane	96-18-4	0.04	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2,4-Trichlorobenzene	120-82-1	5	NS	ug/l	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ
1,2,4-Trimethylbenzene	95-63-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.27 J
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichlorobenzene	95-50-1	3	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichloroethane	107-06-2	0.6	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichloropropane	78-87-5	1	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,3-Dichlorobenzene	541-73-1	3	NS	ug/l	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ
1,3-Dichloropropane	142-28-9	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,4-Dichlorobenzene	106-46-7	3	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	<40 U	<40 U	<40 U	<40 U	<40 U
2,2-Dichloropropane	594-20-7	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
2-Chlorotoluene	95-49-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
2-Hexanone (MBK)	591-78-6	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
4-Chlorotoluene	106-43-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Acetone	67-64-1	**50**	NS	ug/l	**127 D**	**135 D**	6.12	3.44 J	7.07 J
Acrolein	107-02-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Acrylonitrile	107-13-1	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Benzene	71-43-2	1	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromobenzene	108-86-1	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromochloromethane	74-97-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromodichloromethane	75-27-4	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromoform	75-25-2	50	NS	ug/l	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ
Bromomethane	74-83-9	5	NS	ug/l	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ
Carbon Disulfide	75-15-0	60	NS	ug/l	0.34 J	0.49 J	0.58	<0.2 U	0.27 J
Carbon Tetrachloride	56-23-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chlorobenzene	108-90-7	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloroethane	75-00-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloroform	67-66-3	7	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	0.7	<0.2 U
Chloromethane	74-87-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Cis-1,2-Dichloroethene	156-59-2	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	0.2 J	<0.2 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Cyclohexane	110-82-7	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.23 J
Dibromochloromethane	124-48-1	50	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dibromomethane	74-95-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dichlorodifluoromethane	75-71-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Ethylbenzene	100-41-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Isopropylbenzene (Cumene)	98-82-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
M,P-Xylene	179601-23-1	5	NS	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Methyl Acetate	79-20-9	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	NS	ug/l	0.75	1.04	<0.2 U	<0.5 U	<0.57 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	ug/l	0.21 J	0.2 J	<0.2 U	<0.2 U	<0.2 U
Methylcyclohexane	108-87-2	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methylene Chloride	75-09-2	5	NS	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U
n-Butylbenzene	104-51-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
n-Propylbenzene	103-65-1	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
p-Cymene (p-Isopropyltoluene)	CYMP	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Sec-Butylbenzene	135-98-8	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Styrene	100-42-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
T-Butylbenzene	98-06-6	5	NS	ug/l	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ
Tert-Butyl Alcohol	75-65-0	NS	NS	ug/l	2.48	2.64	<0.5 U	<0.5 U	<0.5 U
Tert-Butyl Methyl Ether	1634-04-4	**10**	NS	ug/l	9.93	**11.4**	2.5	0.99	0.71
Tetrachloroethene (PCE)	127-18-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Toluene	108-88-3	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	0.63	<0.2 U
Total Xylenes	1330-20-7	5	NS	ug/l	<0.6 U	<0.6 U	<0.6 U	<0.6 U	<0.6 U
Trans-1,2-Dichloroethene	156-60-5	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trichloroethene (TCE)	79-01-6	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trichlorofluoromethane	75-69-4	5	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Vinyl Acetate	108-05-4	NS	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Vinyl Chloride	75-01-4	2	NS	ug/l	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ	<0.2 UJ

Table 2
Phase II Environmental Investigation Report
Groundwater Sample Analytical Results

213 Meadow Street
Brooklyn, NY
Langan Project No.: 100964202

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	LMW-1	LMW-1	LMW-2	LMW-3	LMW-4
				Sample Name	032_LMW-1	033_DUP-2	034_LMW-2	041_LMW-3	040_LMW-4
				Sample Date	02/07/2022	02/07/2022	02/07/2022	02/08/2022	02/08/2022
				Unit	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds									
1,2,4,5-Tetrachlorobenzene	95-94-3	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
1,2,4-Trichlorobenzene	120-82-1	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
1,2-Dichlorobenzene	95-50-1	3	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
1,2-Diphenylhydrazine	122-66-7	0	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
1,3-Dichlorobenzene	541-73-1	3	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
1,4-Dichlorobenzene	106-46-7	3	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	1	ug/l	0.608	0.752	1.92	0.448 J	1.18
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2,4-Dichlorophenol	120-83-2	1	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2,4-Dimethylphenol	105-67-9	1	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2,4-Dinitrophenol	51-28-5	1	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2,4-Dinitrotoluene	121-14-2	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2,6-Dinitrotoluene	606-20-2	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2-Chloronaphthalene	91-58-7	10	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2-Chlorophenol	95-57-8	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2-Methylnaphthalene	91-57-6	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2-Methylphenol (o-Cresol)	95-48-7	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2-Nitroaniline	88-74-4	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
2-Nitrophenol	88-75-5	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
3,3'-Dichlorobenzidine	91-94-1	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
3-Nitroaniline	99-09-2	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
4-Chloroaniline	106-47-8	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
4-Nitroaniline	100-01-6	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
4-Nitrophenol	100-02-7	NS	NS	ug/l	<5 U	<5 U	<5 U	<5.56 U	<5.56 U
Acenaphthene	83-32-9	20	NS	ug/l	1.89 J	1.31 J	2.06	0.378	1.66
Acenaphthylene	208-96-8	NS	NS	ug/l	0.06	0.05	0.63	<0.0556 U	0.0667
Acetophenone	98-86-2	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Anthracene	120-12-7	50	NS	ug/l	0.92	0.78	0.29	0.156	0.4
Atrazine	1912-24-9	7.5	NS	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.556 U	<0.556 U
Benzaldehyde	100-52-7	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Benzidine	92-87-5	5	NS	ug/l	<5 U	<5 U	<5 U	<5.56 U	<5.56 U
Benzo(a)anthracene	56-55-3	**0.002**	NS	ug/l	**0.5 J**	**0.7 J**	<0.05 U	<0.0556 U	**0.0778**
Benzo(a)pyrene	50-32-8	**0**	NS	ug/l	**0.48 J**	**0.83 J**	<0.05 U	<0.0556 U	**0.0778**
Benzo(b)fluoranthene	205-99-2	**0.002**	NS	ug/l	**0.39 J**	**0.77 J**	<0.05 U	<0.0556 U	**0.0667**
Benzo(g,h,i)Perylene	191-24-2	NS	NS	ug/l	0.34 J	0.55 J	<0.05 U	<0.0556 U	<0.0556 U
Benzo(k)fluoranthene	207-08-9	**0.002**	NS	ug/l	**0.38 J**	**0.66 J**	<0.05 U	<0.0556 U	**0.0667**
Benzoic Acid	65-85-0	NS	NS	ug/l	<2.5 UJ	<2.5 UJ	<2.5 UJ	<2.78 UJ	<2.78 UJ
Benzyl Alcohol	100-51-6	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Benzyl Butyl Phthalate	85-68-7	50	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Biphenyl (Diphenyl)	92-52-4	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Bis(2-chloroethoxy) methane	111-91-1	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1	NS	ug/l	<1 U	<1 U	<1 U	<1.11 U	<1.11 U
Bis(2-chloroisopropyl) ether	108-60-1	5	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Bis(2-ethylhexyl) phthalate	117-81-7	5	NS	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.556 U	<0.556 U
Caprolactam	105-60-2	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Carbazole	86-74-8	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Chrysene	218-01-9	**0.002**	NS	ug/l	**0.59 J**	**0.86 J**	<0.05 U	<0.0556 U	**0.0778**
Dibenz(a,h)anthracene	53-70-3	NS	NS	ug/l	0.07 J	0.11 J	<0.05 U	<0.0556 U	<0.0556 U
Dibenzofuran	132-64-9	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Dibutyl phthalate	84-74-2	50	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Diethyl phthalate	84-66-2	50	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Dimethyl phthalate	131-11-3	50	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Dioctyl phthalate	117-84-0	50	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Fluoranthene	206-44-0	50	NS	ug/l	1.71	1.86	0.27	0.122	0.356
Fluorene	86-73-7	50	NS	ug/l	1.66 J	1.19 J	0.74	0.211	0.956
Hexachlorobenzene	118-74-1	0.04	NS	ug/l	<0.02 U	<0.02 U	<0.02 U	<0.0222 U	<0.0222 U
Hexachlorobutadiene	87-68-3	0.5	NS	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.556 U	<0.556 U
Hexachlorocyclopentadiene	77-47-4	5	NS	ug/l	<5 UJ	<5 UJ	<5 UJ	<5.56 UJ	<5.56 UJ
Hexachloroethane	67-72-1	5	NS	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.556 U	<0.556 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.002**	NS	ug/l	**0.3 J**	**0.48 J**	<0.05 U	<0.0556 U	<0.0556 U
Isophorone	78-59-1	50	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Naphthalene	91-20-3	10	NS	ug/l	0.76 J	0.52 J	0.13	0.656	2.1
Nitrobenzene	98-95-3	0.4	NS	ug/l	<0.25 U	<0.25 U	<0.25 U	<0.278 U	<0.278 U
n-Nitrosodimethylamine	62-75-9	NS	NS	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.556 U	<0.556 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
n-Nitrosodiphenylamine	86-30-6	50	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Pentachlorophenol	87-86-5	1	NS	ug/l	<0.25 U	<0.25 U	<0.25 U	<0.278 U	<0.278 U
Phenanthrene	85-01-8	50	NS	ug/l	4.04	3.2	0.71	0.467	1.47
Phenol	108-95-2	1	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U
Pyrene	129-00-0	50	NS	ug/l	1.49	1.66	0.18	0.0889	0.278
Pyridine	110-86-1	50	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.78 U	<2.78 U

Table 2
Phase II Environmental Investigation Report
Groundwater Sample Analytical Results

213 Meadow Street
Brooklyn, NY
Langan Project No.: 100964202

Analyte	CAS Number	NYSDEC SGVs	NYSDEC Guidance Values	Location	LMW-1	LMW-1	LMW-2	LMW-3	LMW-4
				Sample Name	032_LMW-1	033_DUP-2	034_LMW-2	041_LMW-3	040_LMW-4
				Sample Date	02/07/2022	02/07/2022	02/07/2022	02/08/2022	02/08/2022
				Unit	Result	Result	Result	Result	Result
Pesticides									
4,4'-DDD	72-54-8	0.3	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
4,4'-DDE	72-55-9	0.2	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
4,4'-DDT	50-29-3	0.2	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Aldrin	309-00-2	0	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.01	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Alpha Chlordane	5103-71-9	NS	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Alpha Endosulfan	959-98-8	NS	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	0.0528
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.04	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Beta Endosulfan	33213-65-9	NS	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Chlordane (alpha and gamma)	57-74-9	0.05	NS	ug/l	<0.2 U	<0.2 UJ	<0.2 U	<0.211 U	<0.2 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Dieldrin	60-57-1	0.004	NS	ug/l	<0.002 U	<0.002 UJ	<0.002 U	<0.00211 U	<0.002 U
Endosulfan Sulfate	1031-07-8	NS	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Endrin	72-20-8	0	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Endrin Aldehyde	7421-93-4	5	NS	ug/l	<0.01 U	<0.01 UJ	<0.01 U	<0.0105 U	<0.01 U
Endrin Ketone	53494-70-5	5	NS	ug/l	<0.01 U	<0.01 UJ	<0.01 U	<0.0105 U	<0.01 U
Gamma Bhc (Lindane)	58-89-9	0.05	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Gamma-Chlordane	5566-34-7	NS	NS	ug/l	<0.01 U	<0.01 UJ	<0.01 U	<0.0105 U	<0.01 U
Heptachlor	76-44-8	0.04	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Heptachlor Epoxide	1024-57-3	0.03	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Methoxychlor	72-43-5	35	NS	ug/l	<0.004 U	<0.004 UJ	<0.004 U	<0.00421 U	<0.004 U
Toxaphene	8001-35-2	0.06	NS	ug/l	<0.1 U	<0.1 UJ	<0.1 U	<0.105 U	<0.1 U
Herbicides									
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	35	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	50	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Silvex (2,4,5-Tp)	93-72-1	0.26	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U
Polychlorinated Biphenyl									
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	ug/l	<0.05 UJ	<0.05 UJ	<0.05 U	<0.0526 U	<0.05 UJ
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	ug/l	<0.05 UJ	<0.05 UJ	<0.05 U	<0.0526 U	<0.05 UJ
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	ug/l	<0.05 UJ	<0.05 UJ	<0.05 U	<0.0526 U	<0.05 UJ
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	ug/l	<0.05 UJ	<0.05 UJ	<0.05 U	<0.0526 U	<0.05 UJ
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	ug/l	<0.05 UJ	<0.05 UJ	<0.05 U	<0.0526 U	<0.05 UJ
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	ug/l	<0.05 UJ	<0.05 UJ	<0.05 U	<0.0526 U	<0.05 UJ
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	ug/l	<0.05 UJ	<0.05 UJ	<0.05 U	<0.0526 U	<0.05 UJ
Total PCBs	1336-36-3	0.09	NS	ug/l	<0.05 UJ	<0.05 UJ	<0.05 U	<0.0526 U	<0.05 UJ
Metals									
Aluminum	7429-90-5	NS	NS	ug/l	1,080	902	542	3,630	510
Antimony	7440-36-0	3	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Arsenic	7440-38-2	25	NS	ug/l	3.88	3.91	3.61	20.5	5.42
Barium	7440-39-3	1000	NS	ug/l	510	518	159	152	117
Beryllium	7440-41-7	3	NS	ug/l	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	NS	ug/l	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U
Calcium	7440-70-2	NS	NS	ug/l	228,000	226,000	353,000	184,000	84,500
Chromium, Hexavalent	18540-29-9	50	NS	ug/l	<10 UJ	<10 U	<10 UJ	<10 U	<10 U
Chromium, Total	7440-47-3	NS	NS	ug/l	7.33	6.98	<5.56 U	8.94	6.77
Chromium, Trivalent	16065-83-1	NS	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U
Cobalt	7440-48-4	NS	NS	ug/l	<4.44 U	<4.44 U	<4.44 U	<4.44 U	<4.44 U
Copper	7440-50-8	200	NS	ug/l	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U
Cyanide	57-12-5	200	NS	ug/l	<10 UJ	<35.8 U	<55.9 U	43	59.1
Iron	7439-89-6	**300**	NS	ug/l	**44,900**	**45,200**	**4,910**	**14,300**	**4,050**
Lead	7439-92-1	**25**	NS	ug/l	**31.3**	24	<5.56 U	**57.2**	**92.5**
Magnesium	7439-95-4	**35000**	NS	ug/l	**94,500**	**94,900**	**52,000**	**42,500**	**64,200**
Manganese	7439-96-5	**300**	NS	ug/l	**1,030**	**1,060**	221	**774**	207
Mercury	7439-97-6	0.7	NS	ug/l	<0.2 U	<0.2 U	<0.2 U	0.3	0.3
Nickel	7440-02-0	100	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Potassium	7440-09-7	NS	NS	ug/l	95,200	94,300	40,700	24,100	40,200
Selenium	7782-49-2	10	NS	ug/l	9.91 J	8.63 J	8.1 J	6.79 J	2.48 J
Silver	7440-22-4	50	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	NS	ug/l	**412,000**	**406,000**	**80,000**	**53,200**	**63,200**
Thallium	7440-28-0	0.5	NS	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Zinc	7440-66-6	2000	NS	ug/l	<36.6 U	<27.8 U	<28.6 U	80.5	47
Perfluorooctanoic acids									
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	0.1	ug/l	<0.00185 U	<0.00189 U	0.00368	<0.00179 U	0.00834 J
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	0.1	ug/l	<0.00185 U	<0.00189 U	0.00221	<0.00179 U	0.00205 J
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	0.1	ug/l	0.0143 J	0.00773 J	0.017	0.00803	0.0123
Perfluorobutanoic acid (PFBA)	375-22-4	NS	0.1	ug/l	0.0257	0.0339	0.0436	0.0281	0.0257
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	0.1	ug/l	<0.00185 U	<0.00189 U	<0.00185 U	<0.00179 U	<0.00189 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	0.1	ug/l	<0.00185 UJ	<0.00189 UJ	0.00245 J	0.00231 J	<0.00189 UJ
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	0.1	ug/l	<0.00185 U	<0.00189 U	<0.00185 U	<0.00179 U	<0.00189 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	0.1	ug/l	<0.00185 U	<0.00189 U	0.00511	0.00227	<0.00189 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	0.1	ug/l	0.0271	0.028	0.0619	0.0413	0.0164
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	0.1	ug/l	0.0139	0.0159	0.0278	0.00924	0.0203
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	0.1	ug/l	0.0339	0.0346	0.0587	0.0289	0.0153
Perfluorononanoic Acid (PFNA)	375-95-1	NS	0.1	ug/l	<0.00185 U	<0.00189 U	0.0143	0.00513	0.00424
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	0.1	ug/l	<0.00185 U	<0.00189 U	<0.00185 U	<0.00179 UJ	<0.00189 UJ
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	NS	0.01	ug/l	0.0111	0.00973	0.114	0.115	0.0794
Perfluorooctanoic Acid (PFOA)	335-67-1	NS	0.01	ug/l	0.0759	0.0819	0.135	0.0608	0.0948
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	0.1	ug/l	0.0542	0.0542	0.0946	0.051	0.00953
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	0.1	ug/l	<0.00185 U	<0.00189 U	<0.00185 U	<0.00179 U	<0.00189 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	0.1	ug/l	<0.00185 U	<0.00189 U	<0.00185 U	<0.00179 U	<0.00189 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	0.1	ug/l	<0.00185 U	<0.00189 U	<0.00185 U	<0.00179 U	<0.00189 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	0.1	ug/l	<0.00185 UJ	<0.00189 U	<0.00185 U	<0.00179 UJ	<0.00189 UJ
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	0.1	ug/l	0.015	0.0133	<0.00463 UJ	<0.00446 UJ	<0.00473 UJ

Table 2
Phase II Environmental Investigation Report
Groundwater Sample Analytical Results

213 Meadow Street
Brooklyn, NY
Langan Project No.: 100964202

Notes:

CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (herein collectively referenced as "NYSDEC SGVs").

Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) (June 2021) and the 1,4-Dioxane value reflects the drinking water maximum contaminant level (MCL) adopted by New York State for public water systems (July 2020). Pursuant to Part 375-1.7(f)(2), the NYSDEC will treat the MCL as relevant and appropriate and will consider this value in remedy selection.

Qualifiers:

D - The concentration reported is a result of a diluted sample.
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:

10	- Result exceeds NYSDEC SGVs
10	- Result exceeds NYSDEC Guidance Values

Table 3
Phase II Environmental Investigation Report
Soil Vapor Sample Analytical Results

213 Meadow Street
Brooklyn, NY
Langan Project No.: 100964202

Analyte	CAS Number	NYSDOH Decision Matrices Minimum Concentrations	Location	LSV-1	LSV-2	LSV-3	LSV-4	LSV-4
			Sample Name	044_LSV-1	045_LSV-2	046_LSV-3	042_LSV-4	043_DUP-3
			Sample Date	02/08/2022	02/08/2022	02/08/2022	02/08/2022	02/08/2022
			Sample Type	SV	SV	SV	SV	SV
			Unit	Result	Result	Result	Result	Result
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	630-20-6	NS	ug/m3	<1.01 UJ	<3.75 UJ	<4.71 UJ	<3.55 UJ	<3.68 UJ
1,1,1-Trichloroethane	71-55-6	100	ug/m3	<0.806 UJ	<2.98 UJ	<3.75 UJ	<2.82 UJ	<2.93 UJ
1,1,2,2-Tetrachloroethane	79-34-5	NS	ug/m3	<1.01 UJ	<3.75 UJ	<4.71 UJ	<3.55 UJ	<3.68 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	ug/m3	<1.13 UJ	<4.18 UJ	<5.26 UJ	<3.96 UJ	<4.11 UJ
1,1,2-Trichloroethane	79-00-5	NS	ug/m3	<0.806 UJ	<2.98 UJ	<3.75 UJ	<2.82 UJ	<2.93 UJ
1,1-Dichloroethane	75-34-3	NS	ug/m3	<0.598 UJ	<2.21 UJ	<2.78 UJ	<2.09 UJ	21.7 J
1,1-Dichloroethene	75-35-4	6	ug/m3	<0.293 UJ	<1.08 UJ	<1.36 UJ	<1.03 UJ	<1.06 UJ
1,2,4-Trichlorobenzene	120-82-1	NS	ug/m3	<1.1 UJ	<4.05 UJ	<5.09 UJ	<3.84 UJ	<3.98 UJ
1,2,4-Trimethylbenzene	95-63-6	NS	ug/m3	<0.726 UJ	8.31 J	5.06 J	2.54 J	<2.64 UJ
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	ug/m3	<1.13 UJ	<4.19 UJ	<5.27 UJ	<3.97 UJ	<4.12 UJ
1,2-Dichlorobenzene	95-50-1	NS	ug/m3	<0.888 UJ	<3.28 UJ	6.6 J	<3.11 UJ	<3.22 UJ
1,2-Dichloroethane	107-06-2	NS	ug/m3	<0.598 UJ	<2.21 UJ	<2.78 UJ	<2.09 UJ	<2.17 UJ
1,2-Dichloropropane	78-87-5	NS	ug/m3	<0.683 UJ	<2.52 UJ	<3.17 UJ	<2.39 UJ	<2.48 UJ
1,2-Dichlorotetrafluoroethane	76-14-2	NS	ug/m3	<1.03 UJ	<3.81 UJ	<4.8 UJ	<3.62 UJ	<3.75 UJ
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	NS	ug/m3	<0.726 UJ	4.29 J	<3.37 UJ	<2.54 UJ	<2.64 UJ
1,3-Butadiene	106-99-0	NS	ug/m3	<0.98 UJ	<3.62 UJ	<4.56 UJ	<3.43 UJ	<3.56 UJ
1,3-Dichlorobenzene	541-73-1	NS	ug/m3	<0.888 UJ	<3.28 UJ	<4.13 UJ	<3.11 UJ	<3.22 UJ
1,3-Dichloropropane	142-28-9	NS	ug/m3	<0.683 UJ	<2.52 UJ	<3.17 UJ	<2.39 UJ	<2.48 UJ
1,4-Dichlorobenzene	106-46-7	NS	ug/m3	<0.888 UJ	<3.28 UJ	28.9 J	<3.11 UJ	<3.22 UJ
1,4-Dioxane (P-Dioxane)	123-91-1	NS	ug/m3	<1.06 UJ	<3.93 UJ	<4.95 UJ	<3.73 UJ	<3.87 UJ
2-Hexanone (MBK)	591-78-6	NS	ug/m3	<1.21 UJ	<4.47 UJ	<5.62 UJ	<4.24 UJ	<4.39 UJ
4-Ethyltoluene	622-96-8	NS	ug/m3	<0.726 UJ	6.44 J	<3.37 UJ	<2.54 UJ	<2.64 UJ
Acetone	67-64-1	NS	ug/m3	40 J	12.7 J	12.7 J	33.3 J	32.2 J
Acrylonitrile	107-13-1	NS	ug/m3	<0.321 UJ	<1.18 UJ	<1.49 UJ	<1.12 UJ	<1.16 UJ
Allyl Chloride (3-Chloropropene)	107-05-1	NS	ug/m3	<2.31 UJ	<8.54 UJ	<10.7 UJ	<8.09 UJ	<8.39 UJ
Benzene	71-43-2	NS	ug/m3	2.12 J	<1.74 UJ	3.07 J	<1.65 UJ	<1.71 UJ
Benzyl Chloride	100-44-7	NS	ug/m3	<0.765 UJ	<2.82 UJ	<3.55 UJ	<2.68 UJ	<2.78 UJ
Bromodichloromethane	75-27-4	NS	ug/m3	<0.989 UJ	<3.66 UJ	<4.6 UJ	<3.46 UJ	<3.59 UJ
Bromoethene	593-60-2	NS	ug/m3	<0.646 UJ	<2.39 UJ	<3 UJ	<2.26 UJ	<2.35 UJ
Bromoform	75-25-2	NS	ug/m3	<1.53 UJ	<5.64 UJ	<7.1 UJ	<5.35 UJ	<5.54 UJ
Bromomethane	74-83-9	NS	ug/m3	<0.574 UJ	<2.12 UJ	<2.67 UJ	<2.01 UJ	<2.08 UJ
Carbon Disulfide	75-15-0	NS	ug/m3	<0.46 UJ	31.3 J	2.35 J	6.28 J	6.51 J
Carbon Tetrachloride	56-23-5	6	ug/m3	0.279 J	<0.858 UJ	<1.08 UJ	<0.813 UJ	<0.844 UJ
Chlorobenzene	108-90-7	NS	ug/m3	<0.68 UJ	<2.51 UJ	<3.16 UJ	<2.38 UJ	<2.47 UJ
Chloroethane	75-00-3	NS	ug/m3	<0.39 UJ	<1.44 UJ	<1.81 UJ	<1.36 UJ	<1.42 UJ
Chloroform	67-66-3	NS	ug/m3	<0.721 UJ	<2.66 UJ	<3.35 UJ	<2.53 UJ	<2.62 UJ
Chloromethane	74-87-3	NS	ug/m3	1.16 J	<1.13 UJ	<1.42 UJ	<1.07 UJ	<1.11 UJ
Cis-1,2-Dichloroethene	156-59-2	6	ug/m3	<0.293 UJ	<1.08 UJ	<1.36 UJ	<1.03 UJ	<1.06 UJ
Cis-1,3-Dichloropropene	10061-01-5	NS	ug/m3	<0.67 UJ	<2.48 UJ	<3.12 UJ	<2.35 UJ	<2.43 UJ
Cyclohexane	110-82-7	NS	ug/m3	0.508 J	468 J	244 J	9.26 J	8.49 J
Dibromochloromethane	124-48-1	NS	ug/m3	<1.26 UJ	<4.65 UJ	<5.85 UJ	<4.41 UJ	<4.57 UJ
Dichlorodifluoromethane	75-71-8	NS	ug/m3	2.19 J	<2.7 UJ	<3.39 UJ	36.8 J	<2.65 UJ
Ethyl Acetate	141-78-6	NS	ug/m3	1.17 J	<3.93 UJ	<4.95 UJ	<3.73 UJ	<3.87 UJ
Ethylbenzene	100-41-4	NS	ug/m3	<0.641 UJ	6.16 J	9.24 J	3.59 J	3.26 J
Hexachlorobutadiene	87-68-3	NS	ug/m3	<1.58 UJ	<5.82 UJ	<7.32 UJ	<5.52 UJ	<5.72 UJ
Isopropanol	67-63-0	NS	ug/m3	4.03 J	<2.68 UJ	12.8 J	<2.54 UJ	<2.64 UJ
M,P-Xylene	179601-23-1	NS	ug/m3	1.47 J	7.58 J	8.64 J	<4.49 UJ	<4.66 UJ
Methyl Ethyl Ketone (2-Butanone)	78-93-3	NS	ug/m3	1.48 J	5.15 J	2.63 J	8.08 J	7.75 J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	ug/m3	<0.605 UJ	<2.24 UJ	<2.81 UJ	<2.12 UJ	<2.2 UJ
Methyl Methacrylate	80-62-6	NS	ug/m3	0.726 J	<2.23 UJ	<2.81 UJ	<2.12 UJ	<2.2 UJ
Methylene Chloride	75-09-2	100	ug/m3	4.67 J	<3.79 UJ	6.2 J	<3.59 UJ	4.47 J
n-Heptane	142-82-5	NS	ug/m3	0.848 J	<2.24 UJ	81.3 J	400 J	372 J
n-Hexane	110-54-3	NS	ug/m3	1.61 J	74.2 J	260 J	707 J	653 J
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	ug/m3	<0.641 UJ	4.5 J	3.28 J	<2.25 UJ	<2.33 UJ
Propylene	115-07-1	NS	ug/m3	<0.254 UJ	<0.939 UJ	<1.18 UJ	<0.89 UJ	<0.923 UJ
Styrene	100-42-5	NS	ug/m3	<0.629 UJ	<2.32 UJ	<2.92 UJ	<2.2 UJ	<2.28 UJ
Tert-Butyl Methyl Ether	1634-04-4	NS	ug/m3	<0.533 UJ	<1.97 UJ	<2.48 UJ	7.09 J	<1.93 UJ
Tetrachloroethene (PCE)	127-18-4	100	ug/m3	<1 UJ	<3.7 UJ	<4.66 UJ	<3.51 UJ	<3.64 UJ
Tetrahydrofuran	109-99-9	NS	ug/m3	<0.871 UJ	<3.22 UJ	<4.05 UJ	<3.05 UJ	<3.16 UJ
Toluene	108-88-3	NS	ug/m3	4.29 J	5.96 J	8.02 J	<1.95 UJ	2.43 J
Trans-1,2-Dichloroethene	156-60-5	NS	ug/m3	<0.586 UJ	<2.16 UJ	<2.72 UJ	<2.05 UJ	<2.13 UJ
Trans-1,3-Dichloropropene	10061-02-6	NS	ug/m3	<0.67 UJ	<2.48 UJ	<3.12 UJ	<2.35 UJ	<2.43 UJ
Trichloroethene (TCE)	79-01-6	6	ug/m3	0.397 J	<0.733 UJ	<0.922 UJ	<0.695 UJ	<0.721 UJ
Trichlorofluoromethane	75-69-4	NS	ug/m3	1.16 J	<3.07 UJ	<3.86 UJ	<2.91 UJ	<3.01 UJ
Vinyl Acetate	108-05-4	NS	ug/m3	<0.52 UJ	<1.92 UJ	<2.42 UJ	<1.82 UJ	<1.89 UJ
Vinyl Chloride	75-01-4	6	ug/m3	<0.189 UJ	<0.697 UJ	<0.877 UJ	<0.661 UJ	<0.686 UJ
Total BTEX	BTEX	NS	ug/m3	7.88	24.2	32.25	3.59	5.69

Table 3
Phase II Environmental Investigation Report
Soil Vapor Sample Analytical Results

213 Meadow Street
Brooklyn, NY
Langan Project No.: 100964202

Notes:

SV - Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Soil vapor sample analytical results are compared to the minimum soil vapor concentrations at which mitigation is recommended as set forth in the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (2017).

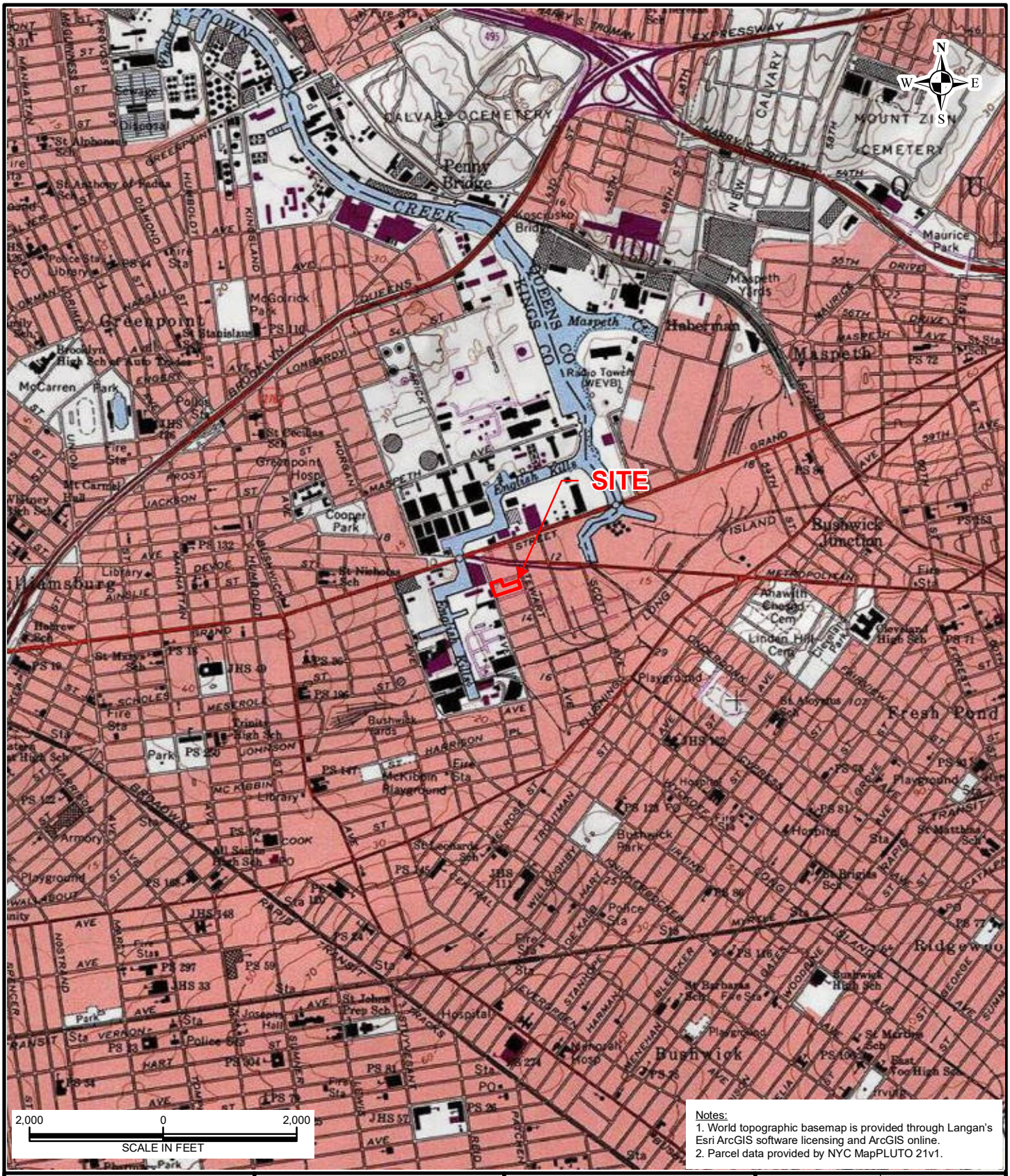
Qualifiers:

J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:

10 - Result exceeds minimum soil vapor concentrations recommending mitigation

FIGURES



Notes:
1. World topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online.
2. Parcel data provided by NYC MapPLUTO 21v1.

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com

Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC
Collectively known as Langan

NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	213 MEADOW STREET BROOKLYN NEW YORK
Drawing Title	SITE LOCATION MAP
Project No.	100964201
Date	2/22/2022
Scale	1" = 2,000'
Drawn By	IHB
Last Revised	
Figure	1

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Path: \\langan.com\data\PAR\data2\100964201\Project Data\ArcGIS\MXD\Environmental_Figures\Figure 1 - Site Location Map.mxd



LANGAN
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
213 MEADOW STREET
BROOKLYN NEW YORK

Drawing Title
SAMPLE LOCATION MAP

Project No.	100964201
Date	2/22/2022
Scale	1" = 75'
Drawn By	IHB
Last Revised	

Figure
2

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Path: \\langan.com\data\PAR\data2\100964201\Project Data\ArcGIS\MXD\Environmental_Figures\10.5\Figure 2 - Sample Location Map.mxd

Legend

- Site Boundary
- Langan Soil Boring Location
- Langan Soil Boring/Monitoring Well Location
- Langan Soil Vapor Point Location
- Tax Parcel Boundary

Notes:
CAS - Chemical Abstract Service
NS - No standard
mg/kg - milligram per kilogram
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Protection of Groundwater, Restricted Use Commercial, and Restricted Use Industrial Soil Cleanup Objectives (SCO).
Criterion comparisons for 3- & 4-methylphenol (m&p cresol) are provided for reference. Promulgated SCOs are for 3-methylphenol (m-cresol) and 4-methylphenol (p-cresol).

Qualifiers:
D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Analyte	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	NYSDEC Part 375 Restricted Use Industrial SCOs
VOCs			
Acetone	**0.05**	500	1,000
SVOCs			
Benzo(a)anthracene	**1**	5.6	11
Benzo(a)pyrene	**22**	1	1.1
Benzo(b)fluoranthene	**1.7**	5.6	11
Benzo(k)fluoranthene	**1.7**	56	110
Chrysene	**1**	56	110
Dibenz(a,h)anthracene	**1,000**	0.56	1.1
Metals			
Arsenic	**16**	16	16
Barium	**820**	400	10,000
Copper	**1,720**	270	10,000
Lead	**450**	1,000	3,900
Mercury	**0.73**	2.8	5.7
PFAS			
Perfluorooctanesulfonic Acid (PFOS)	**0.001**	0.44	0.44

Exceedance Summary:
10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Commercial SCOs
10 - Result exceeds Restricted Use Industrial SCOs

Location	LSB-1	LSB-1
Sample Name	015_LSB-1_2-4	016_LSB-1_4-6
Sample Date	02/04/2022	02/04/2022
Sample Depth	2-4	4-6
VOCs		
Acetone	NA	0.027
SVOCs		
Benzo(a)anthracene	<0.048 U	0.322 D
Benzo(a)pyrene	<0.048 U	0.343 D
Benzo(b)fluoranthene	<0.048 U	0.28 D
Benzo(k)fluoranthene	<0.048 U	0.255 D
Chrysene	<0.048 U	0.303 D
Dibenz(a,h)anthracene	<0.048 U	0.0609 JD
Metals		
Arsenic	**41.8**	<1.92 U
Barium	452	44.9 J
Copper	445	12.2 J
Lead	**1,420**	29.1
Mercury	0.544 J	0.692 J
PFAS		
Perfluorooctanesulfonic Acid (PFOS)	NA	<0.000318 U

Location	LSB-2
Sample Name	001_LSB-2_2-4
Sample Date	02/03/2022
Sample Depth	2-4
VOCs	
Acetone	0.035
SVOCs	
Benzo(a)anthracene	**10.3 D**
Benzo(a)pyrene	7.76 D
Benzo(b)fluoranthene	**6.54 D**
Benzo(k)fluoranthene	**6.45 D**
Chrysene	**10.4 D**
Dibenz(a,h)anthracene	1.31 D
Metals	
Arsenic	8.39
Barium	199 J
Copper	137
Lead	385
Mercury	**1.17**
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000504

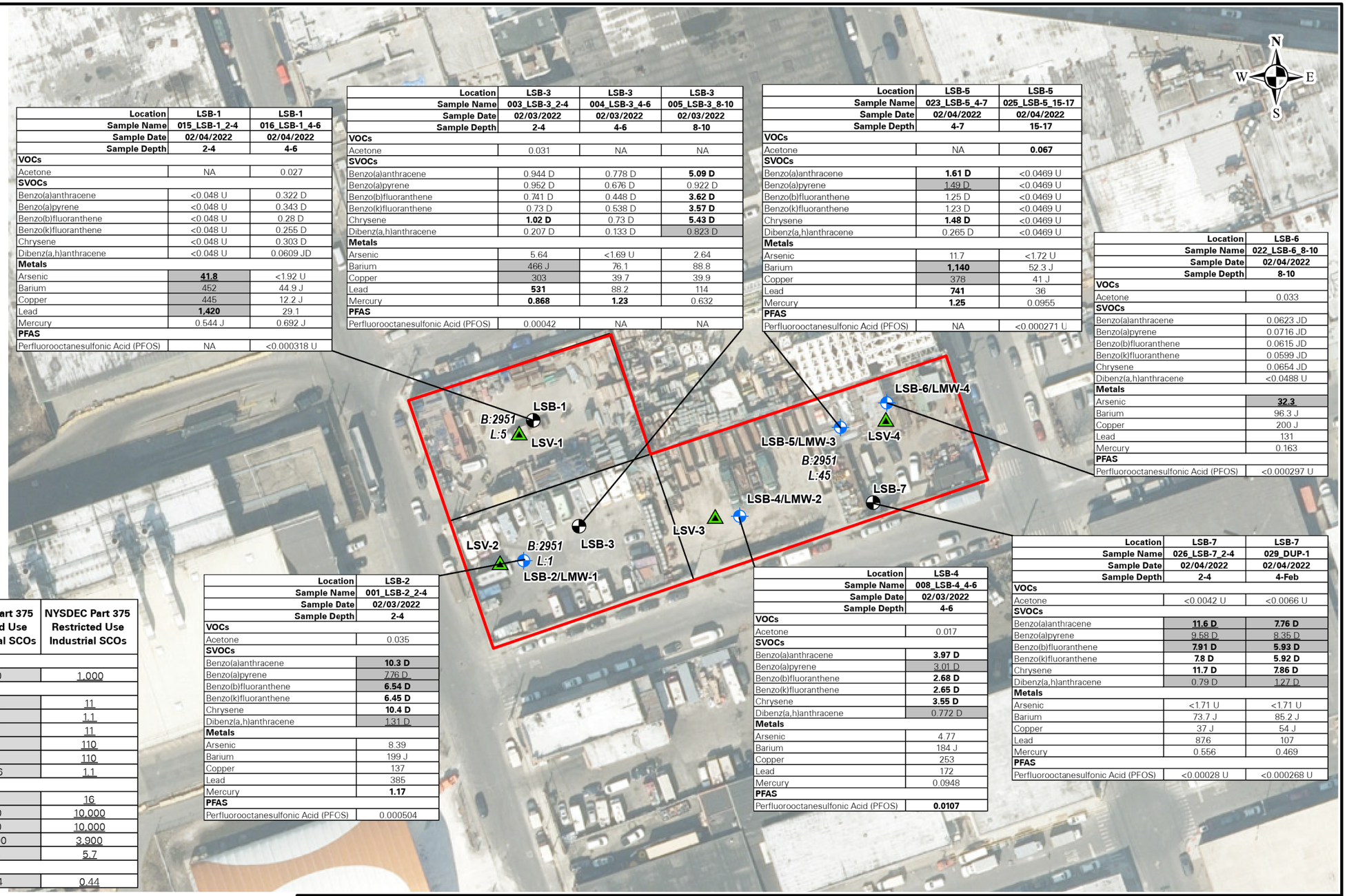
Location	LSB-3	LSB-3	LSB-3
Sample Name	003_LSB-3_2-4	004_LSB-3_4-6	005_LSB-3_8-10
Sample Date	02/03/2022	02/03/2022	02/03/2022
Sample Depth	2-4	4-6	8-10
VOCs			
Acetone	0.031	NA	NA
SVOCs			
Benzo(a)anthracene	0.944 D	0.778 D	**5.09 D**
Benzo(a)pyrene	0.952 D	0.676 D	0.922 D
Benzo(b)fluoranthene	0.741 D	0.448 D	**3.62 D**
Benzo(k)fluoranthene	0.73 D	0.538 D	**3.57 D**
Chrysene	**1.02 D**	0.73 D	**5.43 D**
Dibenz(a,h)anthracene	0.207 D	0.133 D	0.823 D
Metals			
Arsenic	5.64	<1.69 U	2.64
Barium	466 J	76.1	88.8
Copper	303	39.7	39.9
Lead	**531**	88.2	114
Mercury	**0.868**	**1.23**	0.632
PFAS			
Perfluorooctanesulfonic Acid (PFOS)	0.00042	NA	NA

Location	LSB-4
Sample Name	008_LSB-4_4-6
Sample Date	02/03/2022
Sample Depth	4-6
VOCs	
Acetone	0.017
SVOCs	
Benzo(a)anthracene	**3.97 D**
Benzo(a)pyrene	3.01 D
Benzo(b)fluoranthene	**2.68 D**
Benzo(k)fluoranthene	**2.65 D**
Chrysene	**3.55 D**
Dibenz(a,h)anthracene	0.772 D
Metals	
Arsenic	4.77
Barium	184 J
Copper	253
Lead	172
Mercury	0.0948
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	**0.0107**

Location	LSB-5	LSB-5
Sample Name	023_LSB-5_4-7	025_LSB-5_15-17
Sample Date	02/04/2022	02/04/2022
Sample Depth	4-7	15-17
VOCs		
Acetone	NA	**0.067**
SVOCs		
Benzo(a)anthracene	**1.61 D**	<0.0469 U
Benzo(a)pyrene	1.49 D	<0.0469 U
Benzo(b)fluoranthene	1.25 D	<0.0469 U
Benzo(k)fluoranthene	1.23 D	<0.0469 U
Chrysene	**1.48 D**	<0.0469 U
Dibenz(a,h)anthracene	0.265 D	<0.0469 U
Metals		
Arsenic	11.7	<1.72 U
Barium	**1,140**	52.3 J
Copper	378	41 J
Lead	**741**	36
Mercury	**1.25**	0.0955
PFAS		
Perfluorooctanesulfonic Acid (PFOS)	NA	<0.000271 U

Location	LSB-6
Sample Name	022_LSB-6_8-10
Sample Date	02/04/2022
Sample Depth	8-10
VOCs	
Acetone	0.033
SVOCs	
Benzo(a)anthracene	0.0623 JD
Benzo(a)pyrene	0.0716 JD
Benzo(b)fluoranthene	0.0615 JD
Benzo(k)fluoranthene	0.0599 JD
Chrysene	0.0654 JD
Dibenz(a,h)anthracene	<0.0488 U
Metals	
Arsenic	32.3
Barium	96.3 J
Copper	200 J
Lead	131
Mercury	0.163
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000297 U

Location	LSB-7	LSB-7
Sample Name	026_LSB-7_2-4	029_DUP-1
Sample Date	02/04/2022	02/04/2022
Sample Depth	2-4	4-Feb
VOCs		
Acetone	<0.0042 U	<0.0066 U
SVOCs		
Benzo(a)anthracene	**11.6 D**	**7.76 D**
Benzo(a)pyrene	9.58 D	8.35 D
Benzo(b)fluoranthene	**7.91 D**	**5.93 D**
Benzo(k)fluoranthene	**7.8 D**	**5.92 D**
Chrysene	**11.7 D**	**7.86 D**
Dibenz(a,h)anthracene	0.79 D	1.27 D
Metals		
Arsenic	<1.71 U	<1.71 U
Barium	73.7 J	85.2 J
Copper	37 J	54 J
Lead	876	107
Mercury	0.556	0.469
PFAS		
Perfluorooctanesulfonic Acid (PFOS)	<0.00028 U	<0.000268 U



80 0 80
SCALE IN FEET

Notes:
1. World streets basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online.
2. Parcel data provided by NYC MapPLUTO 21v2.
3. Sampling locations are approximate and based on field measurements.

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
213 MEADOW STREET
BLOCK No. 2951, LOT Nos. 1, 5, & 45
BROOKLYN NEW YORK

Drawing Title
SOIL ANALYTICAL RESULTS

Project No. 100964201
Date 3/11/2022
Scale 1" = 80'
Drawn By IHB
Submission Date
Figure 3

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Legend

- Site Boundary
- Langan Soil Boring Location
- Langan Soil Boring/Monitoring Well Location
- Langan Soil Vapor Point Location

Analyte	NYSDEC SGVs	NYSDEC Guidance Values
VOCs		
1,4-Dioxane (P-Dioxane)	NS	1
Acetone	50	NS
Tert-Butyl Methyl Ether	10	NS
SVOCs		
1,4-Dioxane (P-Dioxane)	NS	1
Benzo(a)anthracene	0.002	NS
Benzo(a)pyrene	0	NS
Benzo(b)fluoranthene	0.002	NS
Benzo(k)fluoranthene	0.002	NS
Chrysene	0.002	NS
Indeno(1,2,3-cd)pyrene	0.002	NS
Metals		
Iron	300	NS
Lead	25	NS
Magnesium	35,000	NS
Manganese	300	NS
Sodium	20,000	NS
PFAS		
Perfluorooctanesulfonic Acid (PFOS)	NS	0.01
Perfluorooctanoic Acid (PFOA)	NS	0.01

Exceedance Summary:

10 - Result exceeds NYSDEC SGVs

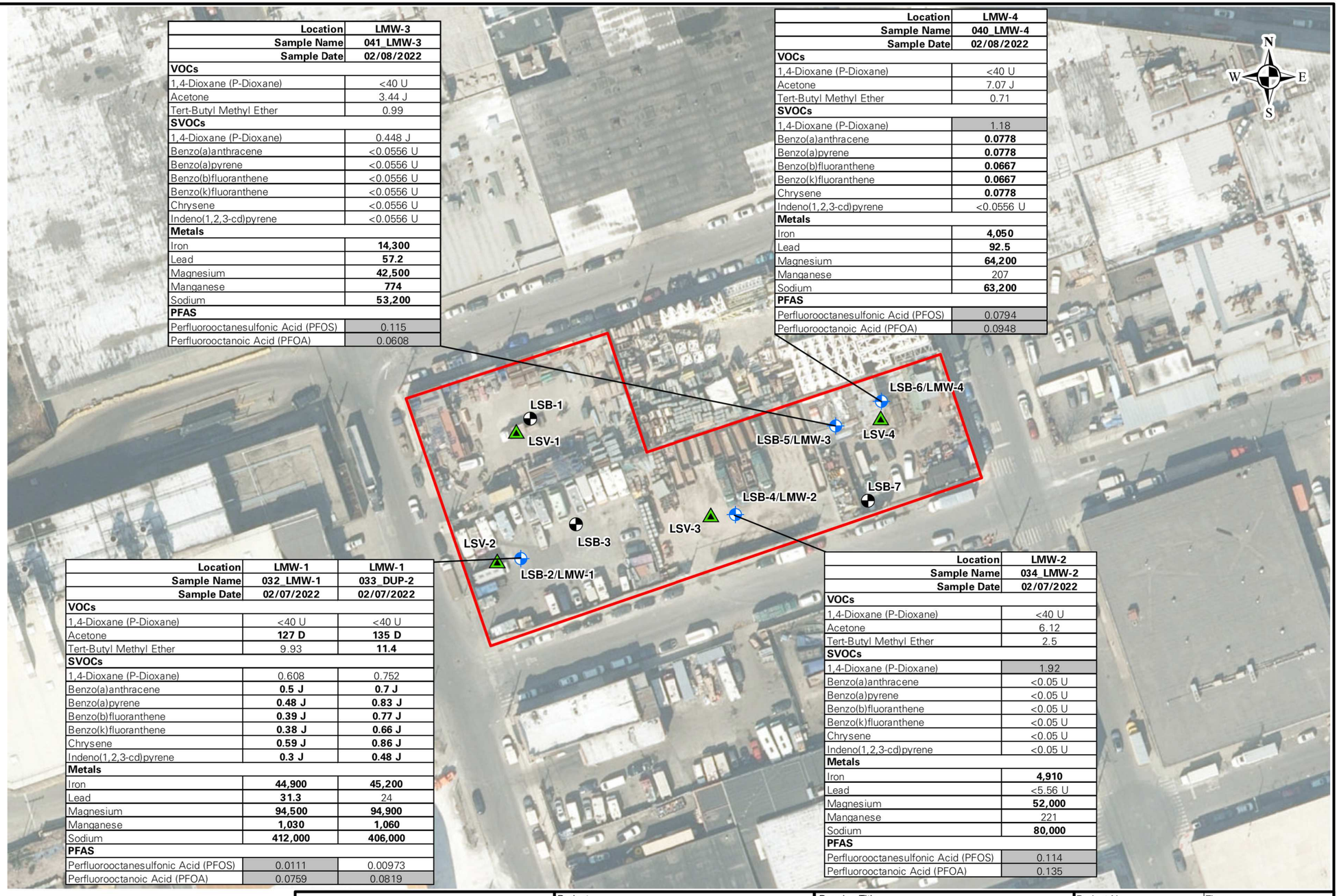
10 - Result exceeds NYSDEC Guidance Values

Notes:

CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (herein collectively referenced as "NYSDEC SGVs").

Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) (June 2021) and the 1,4-Dioxane value reflects the drinking water maximum contaminant level (MCL) adopted by New York State for public water systems (July 2020). Pursuant to Part 375-1.7(f)(2), the NYSDEC will treat the MCL as relevant and appropriate and will consider this value in remedy selection.



Location	LMW-3
Sample Name	041_LMW-3
Sample Date	02/08/2022
VOCs	
1,4-Dioxane (P-Dioxane)	<40 U
Acetone	3.44 J
Tert-Butyl Methyl Ether	0.99
SVOCs	
1,4-Dioxane (P-Dioxane)	0.448 J
Benzo(a)anthracene	<0.0556 U
Benzo(a)pyrene	<0.0556 U
Benzo(b)fluoranthene	<0.0556 U
Benzo(k)fluoranthene	<0.0556 U
Chrysene	<0.0556 U
Indeno(1,2,3-cd)pyrene	<0.0556 U
Metals	
Iron	**14,300**
Lead	**57.2**
Magnesium	**42,500**
Manganese	**774**
Sodium	**53,200**
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.115
Perfluorooctanoic Acid (PFOA)	0.0608

Location	LMW-4
Sample Name	040_LMW-4
Sample Date	02/08/2022
VOCs	
1,4-Dioxane (P-Dioxane)	<40 U
Acetone	7.07 J
Tert-Butyl Methyl Ether	0.71
SVOCs	
1,4-Dioxane (P-Dioxane)	1.18
Benzo(a)anthracene	**0.0778**
Benzo(a)pyrene	**0.0778**
Benzo(b)fluoranthene	**0.0667**
Benzo(k)fluoranthene	**0.0667**
Chrysene	**0.0778**
Indeno(1,2,3-cd)pyrene	<0.0556 U
Metals	
Iron	**4,050**
Lead	**92.5**
Magnesium	**64,200**
Manganese	207
Sodium	**63,200**
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.0794
Perfluorooctanoic Acid (PFOA)	0.0948

Location	LMW-1	LMW-1
Sample Name	032_LMW-1	033_DUP-2
Sample Date	02/07/2022	02/07/2022
VOCs		
1,4-Dioxane (P-Dioxane)	<40 U	<40 U
Acetone	**127 D**	**135 D**
Tert-Butyl Methyl Ether	9.93	**11.4**
SVOCs		
1,4-Dioxane (P-Dioxane)	0.608	0.752
Benzo(a)anthracene	**0.5 J**	**0.7 J**
Benzo(a)pyrene	**0.48 J**	**0.83 J**
Benzo(b)fluoranthene	**0.39 J**	**0.77 J**
Benzo(k)fluoranthene	**0.38 J**	**0.66 J**
Chrysene	**0.59 J**	**0.86 J**
Indeno(1,2,3-cd)pyrene	**0.3 J**	**0.48 J**
Metals		
Iron	**44,900**	**45,200**
Lead	**31.3**	24
Magnesium	**94,500**	**94,900**
Manganese	**1,030**	**1,060**
Sodium	**412,000**	**406,000**
PFAS		
Perfluorooctanesulfonic Acid (PFOS)	0.0111	0.00973
Perfluorooctanoic Acid (PFOA)	0.0759	0.0819

Location	LMW-2
Sample Name	034_LMW-2
Sample Date	02/07/2022
VOCs	
1,4-Dioxane (P-Dioxane)	<40 U
Acetone	6.12
Tert-Butyl Methyl Ether	2.5
SVOCs	
1,4-Dioxane (P-Dioxane)	1.92
Benzo(a)anthracene	<0.05 U
Benzo(a)pyrene	<0.05 U
Benzo(b)fluoranthene	<0.05 U
Benzo(k)fluoranthene	<0.05 U
Chrysene	<0.05 U
Indeno(1,2,3-cd)pyrene	<0.05 U
Metals	
Iron	**4,910**
Lead	<5.56 U
Magnesium	**52,000**
Manganese	221
Sodium	**80,000**
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.114
Perfluorooctanoic Acid (PFOA)	0.135

80 0 80
SCALE IN FEET

Notes:
1. World streets basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online.
2. Parcel data provided by NYC MapPLUTO 21v2.
3. Sampling locations are approximate and based on field measurements.

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
213 MEADOW STREET
BROOKLYN NEW YORK

Drawing Title
GROUNDWATER ANALYTICAL RESULTS

Project No. 100964201
Date 8/30/2023
Scale 1 " = 80 '
Drawn By IHB
Submission Date

Figure 4

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Path: \\langan.com\data\PAR\data2\100964201\Project Data\ArcGIS\MXD\Environmental_Figures\10.5\Figure 4 - Groundwater Analytical Results 105.mxd Date: 8/30/2023 User: aruane Time: 9:55:40 AM

Legend

- Site Boundary
- Langan Soil Boring Location
- Langan Soil Boring/Monitoring Well Location
- Langan Soil Vapor Point Location

Analyte	NYSDOH Decision Matrices Minimum Concentrations
VOCs	
1,1,1-Trichloroethane	**100**
1,1-Dichloroethane	NS
1,1-Dichloroethene	**6**
1,2,4-Trimethylbenzene	NS
1,2-Dichlorobenzene	NS
1,3,5-Trimethylbenzene (Mesitylene)	NS
1,4-Dichlorobenzene	NS
4-Ethyltoluene	NS
Acetone	NS
Benzene	NS
Carbon Disulfide	NS
Carbon Tetrachloride	**6**
Chloromethane	NS
Cis-1,2-Dichloroethene	**6**
Cyclohexane	NS
Dichlorodifluoromethane	NS
Ethyl Acetate	NS
Ethylbenzene	NS
Isopropanol	NS
M,P-Xylene	NS
Methyl Ethyl Ketone (2-Butanone)	NS
Methyl Methacrylate	NS
Methylene Chloride	**100**
n-Heptane	NS
n-Hexane	NS
o-Xylene (1,2-Dimethylbenzene)	NS
Tert-Butyl Methyl Ether	NS
Tetrachloroethene (PCE)	**100**
Toluene	NS
Trichloroethene (TCE)	**6**
Trichlorofluoromethane	NS
Vinyl Chloride	**6**

Exceedance Summary:

10 - Result exceeds minimum soil vapor concentrations recommending mitigation

Notes:
SV - Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Soil vapor sample analytical results are compared to the minimum soil vapor concentrations at which mitigation is recommended as set forth in the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (2017).

Qualifiers:
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.



Location	LSV-1
Sample Name	044_LSV-1
Sample Date	02/08/2022
Sample Type	SV
VOCs	
1,1,1-Trichloroethane	<0.806 UJ
1,1-Dichloroethane	<0.598 UJ
1,1-Dichloroethene	<0.293 UJ
1,2,4-Trimethylbenzene	<0.726 UJ
1,2-Dichlorobenzene	<0.888 UJ
1,3,5-Trimethylbenzene (Mesitylene)	<0.726 UJ
1,4-Dichlorobenzene	<0.888 UJ
4-Ethyltoluene	<0.726 UJ
Acetone	40 J
Benzene	2.12 J
Carbon Disulfide	<0.46 UJ
Carbon Tetrachloride	0.279 J
Chloromethane	1.16 J
Cis-1,2-Dichloroethene	<0.293 UJ
Cyclohexane	0.508 J
Dichlorodifluoromethane	2.19 J
Ethyl Acetate	1.17 J
Ethylbenzene	<0.641 UJ
Isopropanol	4.03 J
M,P-Xylene	1.47 J
Methyl Ethyl Ketone (2-Butanone)	1.48 J
Methyl Methacrylate	0.726 J
Methylene Chloride	4.67 J
n-Heptane	0.848 J
n-Hexane	1.61 J
o-Xylene (1,2-Dimethylbenzene)	<0.641 UJ
Tert-Butyl Methyl Ether	<0.533 UJ
Tetrachloroethene (PCE)	<1 UJ
Toluene	4.29 J
Trichloroethene (TCE)	0.397 J
Trichlorofluoromethane	1.16 J
Vinyl Chloride	<0.189 UJ

Location	LSV-2
Sample Name	045_LSV-2
Sample Date	02/08/2022
Sample Type	SV
VOCs	
1,1,1-Trichloroethane	<2.98 UJ
1,1-Dichloroethane	<2.21 UJ
1,1-Dichloroethene	<1.08 UJ
1,2,4-Trimethylbenzene	8.31 J
1,2-Dichlorobenzene	<3.28 UJ
1,3,5-Trimethylbenzene (Mesitylene)	4.29 J
1,4-Dichlorobenzene	<3.28 UJ
4-Ethyltoluene	6.44 J
Acetone	12.7 J
Benzene	<1.74 UJ
Carbon Disulfide	31.3 J
Carbon Tetrachloride	<0.858 UJ
Chloromethane	<1.13 UJ
Cis-1,2-Dichloroethene	<1.08 UJ
Cyclohexane	468 J
Dichlorodifluoromethane	<2.7 UJ
Ethyl Acetate	<3.93 UJ
Ethylbenzene	6.16 J
Isopropanol	<2.68 UJ
M,P-Xylene	7.58 J
Methyl Ethyl Ketone (2-Butanone)	5.15 J
Methyl Methacrylate	<2.23 UJ
Methylene Chloride	<3.79 UJ
n-Heptane	<2.24 UJ
n-Hexane	74.2 J
o-Xylene (1,2-Dimethylbenzene)	4.5 J
Tert-Butyl Methyl Ether	<1.97 UJ
Tetrachloroethene (PCE)	<3.7 UJ
Toluene	5.96 J
Trichloroethene (TCE)	<0.733 UJ
Trichlorofluoromethane	<3.07 UJ
Vinyl Chloride	<0.697 UJ

Location	LSV-4	LSV-4
Sample Name	042_LSV-4	043_DUP-3
Sample Date	02/08/2022	02/08/2022
Sample Type	SV	SV
VOCs		
1,1,1-Trichloroethane	<2.82 UJ	<2.93 UJ
1,1-Dichloroethane	<2.09 UJ	21.7 J
1,1-Dichloroethene	<1.03 UJ	<1.06 UJ
1,2,4-Trimethylbenzene	2.54 J	<2.64 UJ
1,2-Dichlorobenzene	<3.11 UJ	<3.22 UJ
1,3,5-Trimethylbenzene (Mesitylene)	<2.54 UJ	<2.64 UJ
1,4-Dichlorobenzene	<3.11 UJ	<3.22 UJ
4-Ethyltoluene	<2.54 UJ	<2.64 UJ
Acetone	33.3 J	32.2 J
Benzene	<1.65 UJ	<1.71 UJ
Carbon Disulfide	6.28 J	6.51 J
Carbon Tetrachloride	<0.813 UJ	<0.844 UJ
Chloromethane	<1.07 UJ	<1.11 UJ
Cis-1,2-Dichloroethene	<1.03 UJ	<1.06 UJ
Cyclohexane	9.26 J	8.49 J
Dichlorodifluoromethane	36.8 J	<2.65 UJ
Ethyl Acetate	<3.73 UJ	<3.87 UJ
Ethylbenzene	3.59 J	3.26 J
Isopropanol	<2.54 UJ	<2.64 UJ
M,P-Xylene	<4.49 UJ	<4.66 UJ
Methyl Ethyl Ketone (2-Butanone)	8.08 J	7.75 J
Methyl Methacrylate	<2.12 UJ	<2.2 UJ
Methylene Chloride	<3.59 UJ	4.47 J
n-Heptane	400 J	372 J
n-Hexane	707 J	653 J
o-Xylene (1,2-Dimethylbenzene)	<2.25 UJ	<2.33 UJ
Tert-Butyl Methyl Ether	7.09 J	<1.93 UJ
Tetrachloroethene (PCE)	<3.51 UJ	<3.64 UJ
Toluere	<1.95 UJ	2.43 J
Trichlroethene (TCE)	<0.695 UJ	<0.721 UJ
Trichlrofluoromethane	<2.91 UJ	<3.01 UJ
Vinyl Chloride	<0.661 UJ	<0.686 UJ

Location	LSV-3
Sample Name	046_LSV-3
Sample Date	02/08/2022
Sample Type	SV
VOCs	
1,1,1-Trichloroethane	<3.75 UJ
1,1-Dichloroethane	<2.78 UJ
1,1-Dichloroethene	<1.36 UJ
1,2,4-Trimethylbenzene	5.06 J
1,2-Dichlorobenzene	6.6 J
1,3,5-Trimethylbenzene (Mesitylene)	<3.37 UJ
1,4-Dichlorobenzene	28.9 J
4-Ethyltoluene	<3.37 UJ
Acetone	12.7 J
Benzene	3.07 J
Carbon Disulfide	2.35 J
Carbon Tetrachloride	<1.08 UJ
Chloromethane	<1.42 UJ
Cis-1,2-Dichloroethene	<1.36 UJ
Cyclohexane	244 J
Dichlorodifluoromethane	<3.39 UJ
Ethyl Acetate	<4.95 UJ
Ethylbenzene	9.24 J
Isopropanol	12.8 J
M,P-Xylene	8.64 J
Methyl Ethyl Ketone (2-Butanone)	2.63 J
Methyl Methacrylate	<2.81 UJ
Methylene Chloride	6.2 J
n-Heptane	81.3 J
n-Hexane	260 J
o-Xylene (1,2-Dimethylbenzene)	3.28 J
Tert-Butyl Methyl Ether	<2.48 UJ
Tetrachloroethene (PCE)	<4.66 UJ
Toluene	8.02 J
Trichloroethene (TCE)	<0.922 UJ
Trichlorofluoromethane	<3.86 UJ
Vinyl Chloride	<0.877 UJ

80 0 80
SCALE IN FEET

Notes:
1. World streets basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online.
2. Parcel data provided by NYC MapPLUTO 21v2.
3. Sampling locations are approximate and based on field measurements.

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project: 213 MEADOW STREET
BROOKLYN NEW YORK

Drawing Title: SOIL VAPOR ANALYTICAL RESULTS

Project No.	100964201
Date	8/30/2023
Scale	1 " = 80 '
Drawn By	IHB
Submission Date	
Figure	5

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Path: \\langan.com\data\PAR\data2\100964201\Project Data\ArcGIS\MXD\Environmental_Figures\10.5\Figure 5 - Soil Vapor Analytical Results.mxd Date: 8/30/2023 User: aruane Time: 10:05:54 AM

ATTACHMENT A

GEOPHYSICAL SURVEY REPORT

LANGAN

HAGER-RICHTER
GEOSCIENCE, INC.

UTILITY LOCATING SERVICES
213 MEADOW STREET
BROOKLYN, NEW YORK

Prepared for:

LANGAN, Inc.
2000 Cannonball Rd
Pompton Lakes, New Jersey 07442

Prepared by:

Hager-Richter Geoscience, Inc.
dba HR Geological Services in New York
846 Main Street
Fords, New Jersey 08863

File 22AM01
March 2022

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HAGER-RICHTER
GEOSCIENCE, INC.

GEOPHYSICS FOR THE ENGINEERING COMMUNITY
SALEM, NEW HAMPSHIRE
Tel: 603.893.9944
FORDS, NEW JERSEY
Tel: 732.661.0555

February 18, 2022
File 22AM01

Molly Mattern
Senior Staff Scientist
Langan
300 Kimball Drive, 4th Floor
Parsippany, New Jersey 07054

Off: 973.560.4827
Cell: 973.349.4156
Email: mmattern@Langan.com

RE: Utility Location Services
213 Meadow Street
Brooklyn, New York

Dear Ms. Mattern:

In this report, we summarize the results of a geophysical survey conducted in February 2022, by Hager-Richter Geoscience, Inc. (HRGS), at the above referenced site for LANGAN. The scope of the project and areas of interest (AOIs) were specified by LANGAN.

INTRODUCTION

The site is an active industrial property located at 213 Meadow Street (shown at Block 2951, Lot 45 on NYC Oasis database) in Brooklyn, New York. Figure 1 shows the general location of the site. Langan planned on conducting drilling activities at the site and several adjacent properties (Block 2951, Lot 5 and Lot 7). Prior to drilling, LANGAN requested a geophysical survey to determine the locations of subsurface utilities in the accessible portions of a total of seven (7) proposed boring locations. Figure 2 shows the approximate location of the areas of interest (AOIs), that measured approximately 20-ft by 20-ft and centered at the locations of the proposed borings. Potential utilities and other features detected in the vicinity of proposed borings were marked on the ground at the time of the survey. Access to the northwestern property (Block 2951, Lot 5) at the proposed location of Boring 7, was not available at the time of the survey, therefore, information for this boring will not be reported in this document.

OBJECTIVE

The objective of the geophysical survey was to detect and, if detected, to locate utilities and other subsurface obstructions in the accessible portions of approximately 20 ft by 20 ft areas centered at the locations of six (6) proposed boring locations.

THE SURVEY

Amanda Fabian, P.G. and Alexis Martinez of HRGS conducted the field operations on February 3rd, 2022. The project was coordinated with Ms. Molly Mattern of LANGAN. Ms. Morgan Mcbride, also of LANGAN, was present for the survey and specified the proposed boring locations.

The geophysical survey was conducted using two (2) complementary geophysical methods: ground penetrating radar (GPR) and precision utility location (PUL).

GPR data were acquired in two mutually perpendicular directions and spaced no more than 5 feet apart across the accessible portions of the AOIs. The GPR method is useful for detecting both metallic and non-metallic subsurface objects.

The PUL system was used for tracking utilities in the AOIs by scanning the AOI for the presence of live electric lines and connecting the transmitter to surface features such as valves and hydrants, where visible. Utilities and other features detected in the vicinity of proposed borings were marked on the ground at the time of the survey. LANGAN was notified where proposed boring locations conflicted with detected utilities and/or features.

The survey crew arbitrarily numbered the proposed boring locations as they conducted the field work. The locations were identified as Borings 1 through 7. As indicated above, since access to the northwestern property was not available, no survey was conducted at the proposed boring location (Boring 7) on that lot.

EQUIPMENT AND PROCEDURES

GPR. The GPR survey was conducted using a Geophysical Survey Systems, Inc. UtilityScan HS system with a 350 MHz Hyper Stacking digital antenna and an 80 ns time window. The system includes a survey wheel that triggers the recording of the data at fixed intervals, thereby ensuring the accuracy of the locations of features detected along the survey lines.

GPR uses a high-frequency electromagnetic pulse (referred to herein as “radar signal”) transmitted from a radar antenna to probe the subsurface. The transmitted radar signals are reflected from subsurface interfaces of materials with contrasting electrical properties. Travel times of the radar signal can be converted to approximate depth below the surface by correlation with targets of known depths and by a curve matching routine. We monitor the acquisition of GPR data in the field and record the GPR data digitally for subsequent processing. Interpretation of the records is based on the nature and intensity of the reflected signals and on the resulting patterns.

Data from the GPR survey were processed using RADAN 7.4 GPR processing software from Geophysical Survey Systems, Inc. We reviewed profile images of the GPR data. Interpretation of the records is based on the nature and intensity of the reflected signals and on the resulting patterns.

PUL. The PUL survey was conducted using a Radiodetection RD 7000 series PUL instrument. The RD 7000 series consists of separate transmitter and receiver. The system can be used in "passive" and "active" modes to locate buried pipes by detecting electromagnetic signals carried by the pipes. In the "passive" mode, only the receiver unit is used to detect signals carried by the pipe from nearby power lines, live signals transmitted along underground power cables, or very low frequency radio signals resulting from long wave radio transmissions that flow along buried conductors. In the "active" mode of operation, the transmitter is used to induce a signal on a target pipe, and the receiver is used to trace the signal along the length of the pipe. Our system uses a 10W transmitter.

LIMITATIONS OF THE METHOD

> HRGS MAKES NO GUARANTEE THAT ALL TARGETS WERE DETECTED IN THIS SURVEY. HRGS IS NOT RESPONSIBLE FOR DETECTING TARGETS THAT CANNOT BE DETECTED BY THE METHODS EMPLOYED OR BECAUSE OF SITE CONDITIONS. GPR SIGNAL PENETRATION MIGHT NOT BE SUFFICIENT TO DETECT ALL TARGETS.

Field mark-outs. Utilities and other features detected by the GPR and PUL methods at the time of the survey are marked in the field. Adverse weather and site conditions (rain, uneven surfaces, high traffic, etc.) can hamper in-field interpretation. Field markings made on wet pavement, sand, or gravel surfaces, or in active construction zones may not last. HRGS is not responsible for maintaining field markings after leaving the work area.

GPR. There are limitations of the GPR technique as used to detect and/or locate targets such as those of the objectives of this survey: (1) surface conditions, (2) electrical conductivity of the ground, (3) contrast of the electrical properties of the target and the surrounding soil, and (4) spacing of the traverses. Of these restrictions, only the last is controllable by us.

The condition of the ground surface can affect the quality of the GPR data and the depth of penetration of the GPR signal. Sites covered with snow piles, high grass, bushes, landscape structures, debris, obstacles, soil mounds, etc. limit the survey access and the coupling of the GPR antenna with the ground. In many cases, the GPR signal will not penetrate below concrete pavement, especially inside buildings, and a target may not be detectable. The GPR method also commonly does not provide useful data under canopies found at some facilities. GPR surveys inside buildings may be severely constrained by space limitations and interference from above-grade structures.

The electrical conductivity of the ground determines the attenuation of the GPR signals and thereby limits the maximum depth of exploration. For example, the GPR signal does not penetrate clay-rich soils and targets buried in clay might not be detected.

A definite contrast in the electrical conductivities of the surrounding ground and the target material is required to obtain a reflection of the GPR signal. If the contrast is too small, possibly due to construction details or deeply corroded metal in the target, then the reflection may be too weak to recognize, and the target can be missed. In many cases, plastic, clay, asbestos concrete (transite), brick-lined, stone-lined, and other non-metallic utilities cannot be detected.

Spacing of the traverses is limited by access at many sites, but where flexibility of traverse spacing is possible, the spacing is adjusted to the size of the target. The GPR operator controls the spacing between lines, and the design of the survey is based on the dimensions of the smallest feature of interest. Targets with dimensions smaller than the spacing between GPR survey lines can be missed.

PUL. The PUL equipment cannot detect non-metallic utilities, such as pipes constructed of vitrified clay, transite, plastic, PVC, fiberglass, and unreinforced concrete, when used in passive mode alone. Such pipes can be detected if a wire tracer is installed with access to such tracer for transmission of a signal or where access (such as floor drains and clean-outs) permits insertion of a device on which a signal can be transmitted.

In some, but not all, cases, the subsurface utility designation equipment cannot detect metal utilities reliably under reinforced concrete because the signal couples onto the metal reinforcing in the concrete. Similarly, the method commonly cannot be used adjacent to grounded metal structures such as chain link fences and metal guardrails.

In congested areas, where several utilities are bundled or located within a short distance, the signal transmitted on one utility can couple onto adjacent utilities, and the accuracy of the location indicated by the instrument decreases.

RESULTS

The geophysical survey was conducted using the GPR and PUL methods across the accessible portions of the specified AOIs. Utilities and other features detected in the vicinity of proposed borings were marked on the ground at the time of the survey. Figure 2 shows the locations of the AOIs, and Figure 3 shows the GPR traverses and an integrated interpretation of the geophysical data.

GPR. Apparent GPR signal penetration was variable, with reflections received for about 10 - 20 nanoseconds. Based upon velocity matching calibrations made for the area of interest, the GPR signal penetration is estimated to have been about 1 - 2 feet.

Several unidentified buried objects were detected, and their locations are shown in Figure 3 using “X” symbols. No indication of anomalies associated with possible utilities were identified in the GPR records.

Whether additional utilities, or other features occur at a depth greater than the effective depth of penetration of the GPR signal (~1 to 2 feet) or in areas inaccessible to the geophysical survey cannot be determined from the geophysical data.

PUL. The PUL transmitter was attached to conduits located in or near the AOIs, such as electrical conduit, a water spigot, etc. The PUL survey was also conducted in "passive" mode to detect signals carried by utilities from nearby power lines. An electric utility was detected at Boring 1. Water utilities were detected at Boring 5 and Boring 6. Ms. McBride was notified that the detected water utilities conflicted with the nearby proposed boring locations. No manholes or catch basins were seen in the vicinity of the proposed borings to observe visual alignment of possible sewer and drain utilities. Utilities detected with the PUL were marked in field at the time of the survey.

CONCLUSIONS

Based upon the geophysical survey performed by HRGS at 213 Meadow Street in Brooklyn, New York, we conclude that:

- A possible electric utility was detected at proposed Boring 1.
- Possible water lines were detected at proposed Borings 5 and 6.
- Small unidentified buried objects were detected at proposed borings 2, 3 and 5.
- *Whether additional utilities or other features occur at a depth greater than the effective depth of penetration of the GPR signal (~1 to 2 feet) or in areas inaccessible to the geophysical survey cannot be determined from the geophysical data*.

LIMITATIONS ON USE OF THE REPORT

This letter report was prepared for the exclusive use of LANGAN and its client (collectively, the Client). No other party shall be entitled to rely on this Report, or any information, documents, records, data, interpretations, advice, or opinions given to the Client by Hager-Richter Geoscience, Inc. (HRGS) in the performance of its work. The Report relates solely to the specific project for which HRGS has been retained and shall not be used or relied upon by the Client or any third party for any variation or extension of this project, any other project or any other purpose without the express written permission of HRGS. Any unpermitted use by the Client or any third party shall be at the Client's or such third party's own risk and without any liability to HRGS.

HRGS has used reasonable care, skill, competence, and judgment in the performance of its services for this project consistent with professional standards for those providing similar services at the same time, in the same locale, and under like circumstances. Unless otherwise stated, the work performed by HRGS should be understood to be exploratory and interpretational

in character and any results, findings or recommendations contained in this Report or resulting from the work proposed may include decisions which are judgmental in nature and not necessarily based solely on pure science or engineering. It should be noted that our conclusions might be modified if subsurface conditions were better delineated with additional subsurface exploration including, but not limited to, test pits, soil borings with collection of soil and water samples, and laboratory testing.

Except as expressly provided in this limitations section, HRGS makes no other representation or warranty of any kind whatsoever, oral or written, expressed or implied; and all implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed.

If you have any questions or comments on this letter report, please contact us at your convenience. It has been a pleasure to work with LANGAN on this project. We look forward to working with you again in the future.

Sincerely yours,
HAGER-RICHTER GEOSCIENCE, INC.
dba HR Geological Services in New York

Alexis Martinez
Senior Geophysicist

Amanda Fabian, P.G. (NY 000567)
Geophysicist

Attachments: Figures 1-3



N

H-R

APPROXIMATE SCALE (feet)

0 500 1000



LOCATION

NOTE:

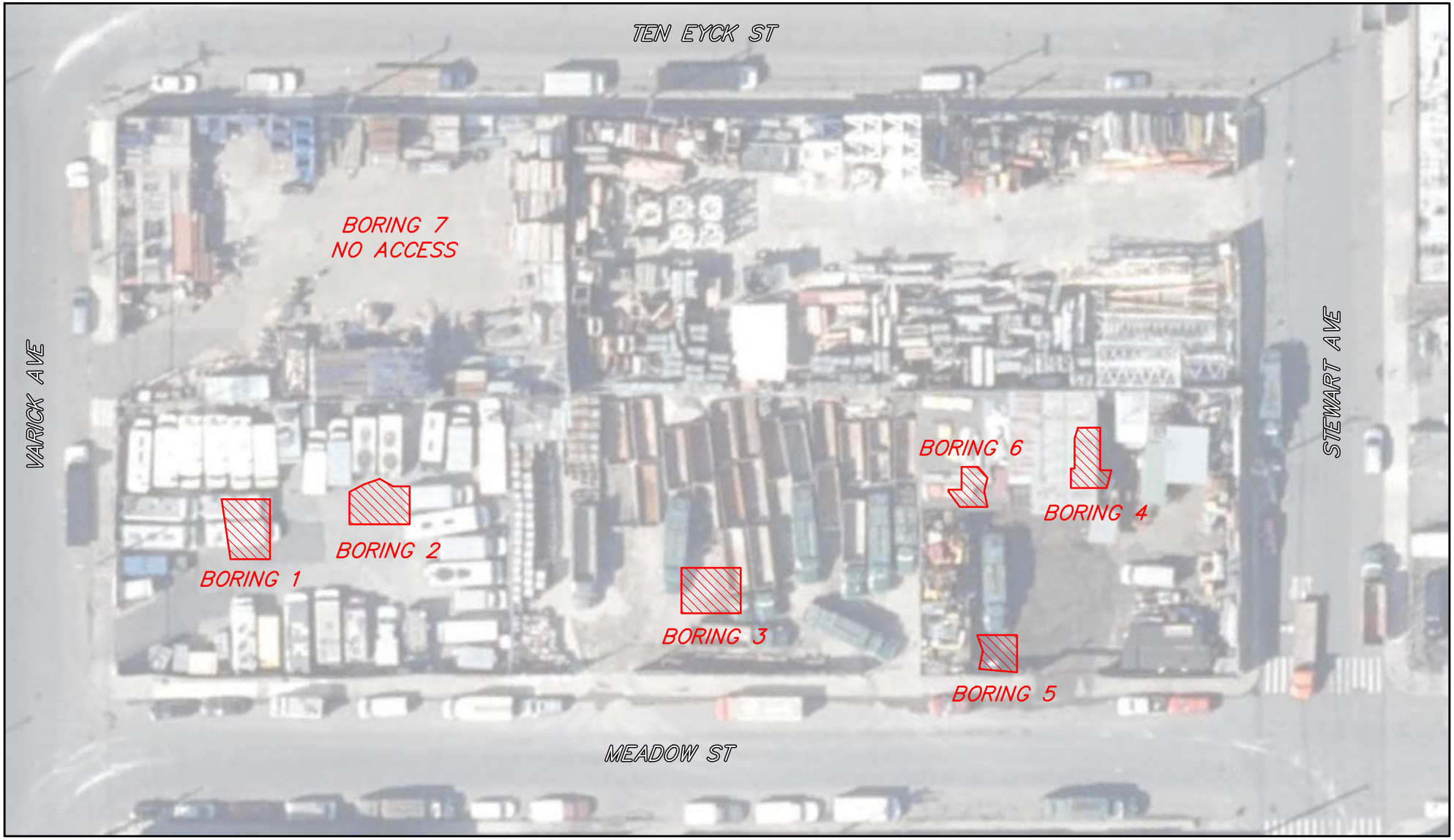
Modified from Google Earth Pro aerial photograph.

* DBA HR Geological Services in New York

Figure 1
General Site Location
213 Meadow Street
Brooklyn, New York

File 22AM01 | February, 2022

HAGER–RICHTER*
Salem, NH | Fords, NJ



SCALE (feet)

0 50 100

LEGEND

APPROXIMATE LIMITS OF GEOPHYSICAL SURVEY AREA

N

NOTE:

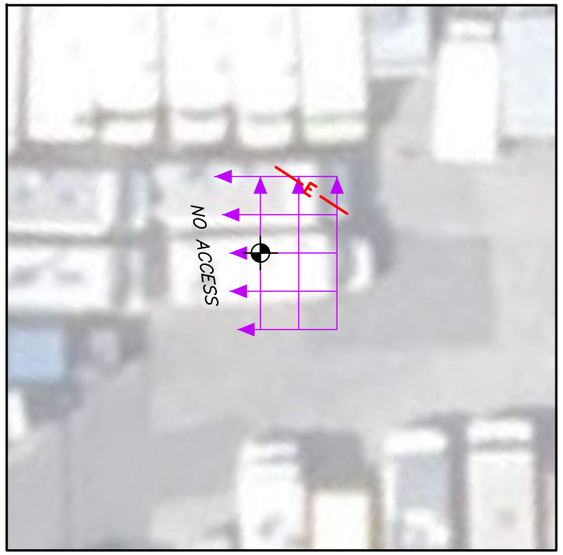
Modified from site plan provided by Langan, identified as Meadow Street Proposed Boring Drilling Phasing (2022-01-27).pdf

* DBA HR Geological Services in New York

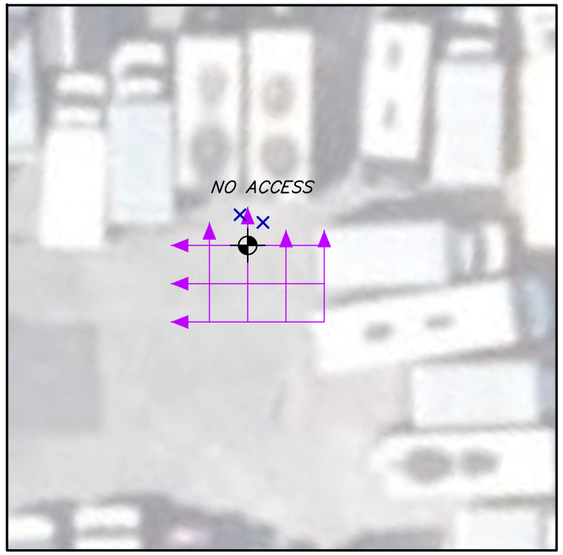
Figure 2
Survey Area Locations
213 Meadow Street
Brooklyn, New York

File 22AM01 | February, 2022

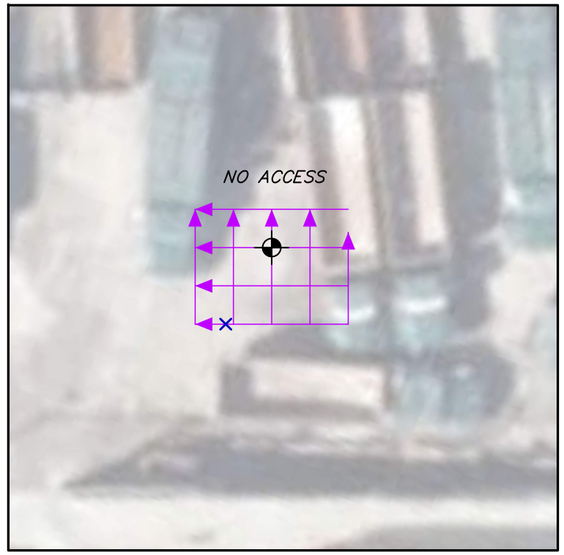
HAGER-RICHTER*
Salem, NH | Fords, NJ



BORING 1



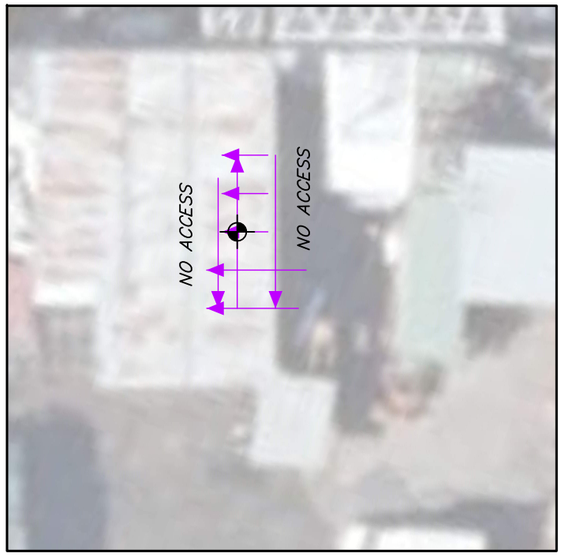
BORING 2



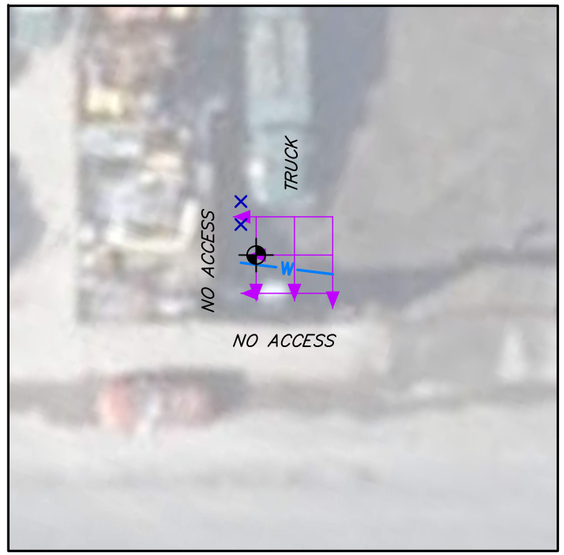
BORING 3



BORING 6



BORING 4



BORING 5



LEGEND

- GPR TRAVERSE
- E — ELECTRIC LINE
- W — WATER LINE
- × — UNIDENTIFIED BURIED OBJECT
- ⊕ — PROPOSED BORING

NOTE:

Modified from site plan provided by Langan, identified as Meadow Street Proposed Boring Drilling Phasing (2022–01–27).pdf

SCALE (feet)

0 20 40

* DBA HR Geological Services in New York

Figure 3
Geophysical Survey Boring 1, 2, 3, 6, 4, & 5
213 Meadow Street
Brooklyn, New York

File 22AM01 | February, 2022

HAGER–RICHTER*
Salem, NH | Fords, NJ

ATTACHMENT B

SOIL BORING AND MONITORING WELL CONSTRUCTION LOGS

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Log of Boring **LSB-1** Sheet 1 of 1

Project: 213 Meadow Street	Project No.: 100964202
Location: LSB-1	Elevation and Datum: Approx. el 12 Brooklyn Highway Datum
Drilling Company: AARCO Environmental Services Corp.	Date Started: 2/4/22 / Date Finished: 2/4/22
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft / Rock Depth: --
Size and Type of Bit: 2in Direct Push	Number of Samples: Disturbed -- / Undisturbed 4 / Core 0
Casing Diameter (in): -- / Casing Depth (ft): --	Water Level (ft.): First ▽ 10 / Completion ▼ -- / 24 HR. ▼ --
Casing Hammer: -- / Weight (lbs): -- / Drop (in): --	Drilling Foreman: Jose Garcia
Sampler: 1.75" x 5' Long Acetate Lined Macrocore	Field Engineer: Morgan McBride
Sampler Hammer: -- / Weight (lbs): -- / Drop (in): --	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		CONCRETE	0					0	Started drilling on 2/4/2022.
			1					0	
								0	
								0	
		Brown SAND, some brick, some gravel (dry)	2					0	8:35 AM - Collect sample 015_LSB-1_2-4 from 2-4' bgs. VOCs collected from 2.5-3' bgs.
				M-1	Macrocore	30		0	
		Dark brown sandy SILT, some clay (dry)	3					0	
								0	Odor from 3-6' bgs.
			4					0	8:40 AM - Collect sample 016_LSB-1_4-6 from 4-6' bgs. VOCs collected from 4.5-5' bgs.
		Dark brown fine-medium SAND, some gravel (dry)	5					0	
		Dark brown silty fine-medium SAND, trace gravel (dry)						0	
			6					0	
								0	8:45 AM - Collect sample 017_LSB-1_6-8 from 6-8' bgs. VOCs collected from 6.5-7' bgs.
			7	M-2	Macrocore	48		0	
		Dark brown silty fine-medium SAND, trace brick, trace glass, trace gravel (dry)						0	
			8					0	
		Dark brown sandy SILT, some clay (moist)						0	
			9					0	
								0	
		Brown fine-medium SAND, some gravel (wet) ▽	10					0	
		Brown sandy SILT, some clay (wet)						0	
			11					0	
		Gray fine-medium SAND, some gravel, trace wood, trace clay (wet)						0	
			12	M-3	Macrocore	42		0	
								0	
			13					0	
								0	
			14					0.1	
		Dark brown CLAY (moist)	15					0	
								0	
			16					0	
								0	
			17					0	
				M-4	Macrocore	42		0	
			18					0	
								0	
			19					0	
								0	
		Dark brown PEAT, some clay, trace organics (moist)	20						Bottom of boring at 20' bgs.
			21						
			22						

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Log of Boring **LSB-2/LMW-1** Sheet 1 of 1

Project: 213 Meadow Street	Project No.: 100964202
Location: LSB-2	Elevation and Datum: Approx. el 12 Brooklyn Highway Datum
Drilling Company: AARCO Environmental Services Corp.	Date Started: 2/3/22 / Date Finished: 2/3/22
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft / Rock Depth: --
Size and Type of Bit: 2in Direct Push	Number of Samples: Disturbed -- / Undisturbed 4 / Core 0
Casing Diameter (in): -- / Casing Depth (ft): --	Water Level (ft.): First ▽ 12 / Completion ▼ -- / 24 HR. ▼ --
Casing Hammer: -- / Weight (lbs): -- / Drop (in): --	Drilling Foreman: Jose Garcia
Sampler: 1.75" x 5' Long Acetate Lined Macrocore	Field Engineer: Morgan McBride
Sampler Hammer: -- / Weight (lbs): -- / Drop (in): --	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)
		CONCRETE	0					0
			1					0
								0
								0
		Dark brown fine-medium SAND, some gravel, trace coal ash, brick fragments (dry)	2	M-1	Macrocore	36		0
								0
			3					0
								0.1
			4					0.1
								0.1
		Dark brown fine-medium SAND, some gravel, brick fragments (dry)	5					0
								0.1
		Brown silty fine-medium SAND, trace clay (moist)	6					0
				M-2	Macrocore	42		0
			7					0
								0
			8					0
								0
			9					0
								0
		Brown fine-medium SAND, some gravel, trace silt (moist)	10					0
								0
		Black fine-medium SAND, trace silt, trace gravel (moist)	11					0
								0
		Gray fine-medium SAND, some gravel (wet) ▽	12					0
				M-3	Macrocore	42		0
			13					0
								0
			14					0
								0
		Dark black fine-medium SAND, trace gravel (wet)	15					0.1
								0.2
			16					0.4
								3.3
		Dark black silty fine-medium SAND, trace clay (wet)	17					4.8
				M-4	Macrocore	42		0.4
			18					0.4
								0.2
		Dark brown PEAT, some clay (moist)	19					0.1
								0.1
			20					
			21					
			22					

Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)

Started Drilling on 2/3/2022.

10:35 AM - Collect sample 001_LSB-2_2-4 from 2-4' bgs. VOCs collected from 2.5-3' bgs.

Slight Odor.
10:40 AM - Collect sample 002_LSB-2_4-6 from 4-6' bgs. VOCs collected from 4.5-5' bgs.

Bottom of boring at 20' bgs.

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Log of Boring **LSB-3** Sheet 1 of 1

Project: 213 Meadow Street	Project No.: 100964202
Location: LSB-3	Elevation and Datum: Approx. el 12 Brooklyn Highway Datum
Drilling Company: AARCO Environmental Services Corp.	Date Started: 2/3/22 — Date Finished: 2/3/22
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft — Rock Depth: --
Size and Type of Bit: 2in Direct Push	Number of Samples: Disturbed -- — Undisturbed 4 — Core 0
Casing Diameter (in): -- — Casing Depth (ft): --	Water Level (ft.): First ▽ 10 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: -- — Weight (lbs): -- — Drop (in): --	Drilling Foreman: Jose Garcia
Sampler: 1.75" x 5' Long Acetate Lined Macrocore	Field Engineer: Morgan McBride
Sampler Hammer: -- — Weight (lbs): -- — Drop (in): --	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		CONCRETE	0					0	Started Drilling on 2/3/2022.
		Brown fine-medium SAND, trace coal, trace gravel, brick lenses (dry)	1					0	
		Black fine-medium SAND, trace silt, trace gravel (dry)	2	M-1	Macrocore	40		0	12:10 AM - Collect sample 003_LSB-3_2-4 from 2-4' bgs. VOCs collected from 2.5-3' bgs.
		Dark brown sandy CLAY, trace brick, trace gravel (moist)	3					0	
			4					0	12:15 AM - Collect sample 004_LSB-3_4-6 from 4-6' bgs. VOCs collected from 4.5-5' bgs.
			5					0	
		Grayish brown sandy CLAY, trace gravel (wet)	6	M-2	Macrocore	42		0	
			7					0	
			8					0	12:20 PM - Collect sample 005_LSB-3_8-10 from 8-10' bgs. VOCs collected from 8.5-9' bgs.
			9					0	
		▽	10					0	
		Brown silty fine-medium SAND, trace clay, trace gravel (wet)	11	M-3	Macrocore	42		0	
		Black fine-medium SAND, trace silt, trace gravel (wet)	12					0	
		Gray fine-medium SAND, some gravel (wet)	13					0	
			14					0	
		Dark black silty fine-medium SAND, trace gravel (wet)	15	M-4	Macrocore	42		0	
			16					0	
			17					0	
		Dark black silty fine-medium SAND, some clay, trace gravel (wet)	18					0	
		Dark brown PEAT, some clay (moist)	19					0	
			20						Bottom of boring at 20' bgs.
			21						
			22						

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Log of Boring **LSB-4/LMW-2** Sheet 1 of 1

Project: 213 Meadow Street	Project No.: 100964202
Location: LSB-4	Elevation and Datum: Approx. el 12 Brooklyn Highway Datum
Drilling Company: AARCO Environmental Services Corp.	Date Started: 2/3/22 / Date Finished: 2/3/22
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft / Rock Depth: --
Size and Type of Bit: 2in Direct Push	Number of Samples: Disturbed -- / Undisturbed 4 / Core 0
Casing Diameter (in): -- / Casing Depth (ft): --	Water Level (ft.): First ▽ 10 / Completion ▼ -- / 24 HR. ▼ --
Casing Hammer: -- / Weight (lbs): -- / Drop (in): --	Drilling Foreman: Jose Garcia
Sampler: 1.75" x 5' Long Acetate Lined Macrocore	Field Engineer: Morgan McBride
Sampler Hammer: -- / Weight (lbs): -- / Drop (in): --	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Brown fine-medium SAND, trace brick, trace silt, trace gravel (dry)	0	M-1	Macrocore	52		0	Started Drilling on 2/3/2022.
		Black fine-medium SAND, trace brick, trace wood, trace silt, trace gravel (dry)	1					0	1:30 PM - Collect sample 006_LSB-4_0-2 from 0-2' bgs. VOCs collected from 0.5-1' bgs.
			2					0	
			3					0	1:35 PM - Collect sample 007_LSB-4_2-4 from 2-4' bgs. VOCs collected from 2.5-3' bgs.
								0	
								0.3	
		Black clayey fine-medium SAND, trace brick, trace wood, trace silt (dry)	4					7.9	Odor from 4-6' bgs.
								0.4	
		Dark black clayey fine-medium SAND, trace brick, trace silt (dry)	5	M-2	Macrocore	42		0.3	1:40 PM - Collect sample 008_LSB-4_4-6 from 4-6' bgs. VOCs collected from 4.5-5' bgs.
								0.2	
		Dark black clayey fine-medium SAND, trace silt (dry)	6					0	
								0	
			7					0	
								0	
			8					0	1:45 PM - Collect sample 009_LSB-4_8-10 from 8-10' bgs. VOCs collected from 8.5-9' bgs.
								0	
			9					0	
								0	
		Brown silty fine-medium SAND, trace clay (wet) ▽	10					0	
								0	
			11					0	
								0	
		Black silty fine-medium SAND, trace gravel (wet)	12	M-3	Macrocore	48		0	
								0	
			13					0	
								0	
			14					0	
								0	
		Grayish brown silty fine-medium SAND, trace gravel (wet)	15					0.4	
								0.3	
		Gray fine-medium SAND, some gravel, trace silt (wet)	16					0	
								0	
			17					1.2	
				M-4	Macrocore	60		0.3	
			18					0	
								0	
			19					0	
								0	
			20						Bottom of boring at 20' bgs.
			21						
			22						

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Log of Boring **LSB-5/LMW-3** Sheet 1 of 1

Project: 213 Meadow Street	Project No.: 100964202
Location: LSB-5	Elevation and Datum: Approx. el 12 Brooklyn Highway Datum
Drilling Company: AARCO Environmental Services Corp.	Date Started: 2/4/22 / Date Finished: 2/4/22
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft / Rock Depth: --
Size and Type of Bit: 2in Direct Push	Number of Samples: Disturbed -- / Undisturbed 4 / Core 0
Casing Diameter (in): -- / Casing Depth (ft): --	Water Level (ft.): First ▽ 12 / Completion ▼ -- / 24 HR. ▼ --
Casing Hammer: -- / Weight (lbs): -- / Drop (in): --	Drilling Foreman: Jose Garcia
Sampler: 1.75" x 5' Long Acetate Lined Macrocore	Field Engineer: Morgan McBride
Sampler Hammer: -- / Weight (lbs): -- / Drop (in): --	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		CONCRETE	0					0	Started Drilling at 2/4/2022.
			1					0	
								0	
								0	
		Brown fine-medium SAND, trace silt, trace gravel, brick lenses (dry)	2	M-1	Macrocore	30		0	Odors from 2-17' bgs.
								0	
			3					0	
								0	
			4					0	1:30 PM - Collect sample 023_LSB-5_4-7 from 4-7' bgs. VOCs collected from 4.5-5' bgs.
								0	
		Dark brown fine-medium SAND, trace brick, trace silt, trace gravel (dry)	5					0	
								0	
		Dark brown to black fine-medium SAND, trace brick, trace silt, trace gravel (dry)	6					0	
								0.3	
			7	M-2	Macrocore	58		1.9	
								4.3	
			8					1.2	
								0.3	
		Dark brown sandy SILT, trace clay (moist)	9					0	
								0	
		Dark brown sandy SILT, some clay (moist)	10					2.3	1:40 PM - Collect sample 024_LSB-5_10-12 from 10-12' bgs. VOCs collected from 10.5-11' bgs.
								2.5	
			11					2.3	
								5.8	
		Brown sandy CLAY, trace silt (wet) ▽	12					7.4	
				M-3	Macrocore	60		0.8	
			13					0.3	
								0.2	
			14					0	
								0.1	
		Dark brown sandy SILT, brick lenses (wet)	15					28.8	1:45 PM - Collect sample 025_LSB-5_15-17 from 15-17' bgs. VOCs collected from 15.5-16' bgs.
								52.7	
			16					17.6	
								13.9	
		Dark brown sandy SILT (wet)	17					9.8	
				M-4	Macrocore	58		4.5	
			18					3.2	
								2.3	
		Dark brown silty fine-medium SAND, trace clay (wet)	19					2.3	
								2.5	
			20						Bottom of boring at 20' bgs.
			21						
			22						

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Log of Boring **LSB-6/LMW-4** Sheet 1 of 1

Project: 213 Meadow Street	Project No.: 100964202
Location: LSB-6	Elevation and Datum: Approx. el 12 Brooklyn Highway Datum
Drilling Company: AARCO Environmental Services Corp.	Date Started: 2/4/22 / Date Finished: 2/4/22
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft / Rock Depth: --
Size and Type of Bit: 2in Direct Push	Number of Samples: Disturbed -- / Undisturbed 4 / Core 0
Casing Diameter (in): -- / Casing Depth (ft): --	Water Level (ft.): First ▽ 10 / Completion ▼ -- / 24 HR. ▼ --
Casing Hammer: -- / Weight (lbs): -- / Drop (in): --	Drilling Foreman: Jose Garcia
Sampler: 1.75" x 5' Long Acetate Lined Macrocore	Field Engineer: Morgan McBride
Sampler Hammer: -- / Weight (lbs): -- / Drop (in): --	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		CONCRETE	0					0	Started Drilling at 2/4/2022.
			1					0	
								2.6	
			2					1.9	
		Black silty fine-medium SAND, some wood, trace brick, trace glass (dry)						0.7	
			3	M-1	Macrocore	42		0.7	11:10 AM - Collect sample 019_LSB-6_2-4 from 2-4' bgs. VOCs collected from 2.5-3' bgs.
								0.6	
			4					0.7	Odors from 2-14' bgs.
								2.9	11:15 AM - Collect sample 020_LSB-6_4-6 from 4-6' bgs. VOCs collected from 4.5-5' bgs.
		Dark gray silty fine-medium SAND, some gravel, trace brick (dry)	5					1.8	
		Dark black sandy SILT, trace clay (dry)						2.6	
		Dark brown silty fine-medium SAND, some gravel, trace coal (dry)	6					15.9	
								37.8	
			7	M-2	Macrocore	52		36.7	11:20 AM - Collect sample 021_LSB-6_6-8 from 6-8' bgs. VOCs collected from 6.5-7' bgs.
								45.6	
								53.3	
		Dark brown fine-medium SAND, some gravel, trace coal, trace slag (moist)	8					171	Strong odor at 8' bgs.
								41.6	11:25 AM - Collect sample 022_LSB-6_8-10 from 8-10' bgs. VOCs collected from 8.5-9' bgs.
			9					10.2	
								10.1	
		Dark brown sandy SILT (wet) ▽	10					12.6	
								10.8	
			11					9.7	
								8.3	
			12	M-3	Macrocore	60		5.2	
		Dark brown sandy SILT, some gravel, trace brick (wet)						0.3	
		Dark brown to black sandy SILT, some clay, trace gravel (wet)	13					0.3	
								0.3	
		Dark brown CLAY, some silt, trace gravel (wet)	14					0.3	
								0.3	
		Dark brown CLAY, some silt (wet)	15					0	
								0	
			16					0	
								0	
			17	M-4	Macrocore	54		0	
								0	
			18					0	
								0	
		Dark brown PEAT, trace organics (moist)	19					0	
								0	
			20						Bottom of boring at 20' bgs.
			21						
			22						

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Log of Boring **LSB-7** Sheet 1 of 1

Project: 213 Meadow Street	Project No.: 100964202
Location: LSB-7	Elevation and Datum: Approx. el 12 Brooklyn Highway Datum
Drilling Company: AARCO Environmental Services Corp.	Date Started: 2/4/22 / Date Finished: 2/4/22
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 20 ft / Rock Depth: --
Size and Type of Bit: 2in Direct Push	Number of Samples: Disturbed -- / Undisturbed 4 / Core 0
Casing Diameter (in): -- / Casing Depth (ft): --	Water Level (ft.): First ▽ 10 / Completion ▼ -- / 24 HR. ▼ --
Casing Hammer: -- / Weight (lbs): -- / Drop (in): --	Drilling Foreman: Jose Garcia
Sampler: 1.75" x 5' Long Acetate Lined Macrocore	Field Engineer: Morgan McBride
Sampler Hammer: -- / Weight (lbs): -- / Drop (in): --	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		CONCRETE	0					0	Started Drilling at 2/4/2022.
		Brown fine-medium SAND, trace silt, trace gravel, trace brick (dry)	2	M-1	Macrocore	54		0	2:30 PM - Collect sample 026_LSB-7_2-4 and 029_DUP-1 from 2-4' bgs. VOCs collected from 2.5-3' bgs.
			4					0	2:35 PM - Collect sample 027_LSB-7_4-6 from 4-6' bgs. VOCs collected from 4.5-5' bgs. Odor from 5-20' bgs.
		Brown silty fine-medium SAND, trace brick (dry)	5					0	
		Dark brown silty fine-medium SAND, trace concrete, trace clay, trace gravel (moist)	6	M-2	Macrocore	52		0	2:40 PM - Collect sample 028_LSB-7_6-8 from 6-8' bgs. VOCs collected from 6.5-7' bgs.
		Dark brown silty fine-medium SAND, trace clay, trace gravel (moist)	8					0	
		▽ Dark brown silty fine-medium SAND, trace clay (wet)	10	M-3	Macrocore	48		0	
		Tannish brown SILT (wet)	13					0	
		Grayish black silty fine-medium SAND, trace gravel (wet)	14					0	
			15	M-4	Macrocore	42		0	
			18					0	
			20					0	Bottom of boring at 20' bgs.
			21						
			22						

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WELL CONSTRUCTION SUMMARY

Well No. LMW-1

Well Permit No. --

Project: 213 Meadow Street	Project No.: 100964202
Location: LSB-2	Elevation And Datum: Approx. el 12 Brooklyn Highway Datum
Drilling Agency: AARCO Environmental Services Corp.	Date Started: 2/3/2022 / Date Finished: 2/3/2022
Drilling Equipment: Geoprobe 7822 DT	Driller: Jose Garcia
Size And Type of Bit: 2in Direct Push	Inspector: Morgan McBride

Method of Installation

A Geoprobe 7822 DT was used to advance LSB-2 to approximately 20-feet below ground surface. A two-inch Sch. 40 PVC well was installed consisting of approximately 10 feet of No. 10 (0.010-inch) screen packed with No. 2 sand and 10 feet of two-inch Sch. 40 PVC riser. The well was finished with a flush mount manhole cover and concrete pad.

Method of Well Development

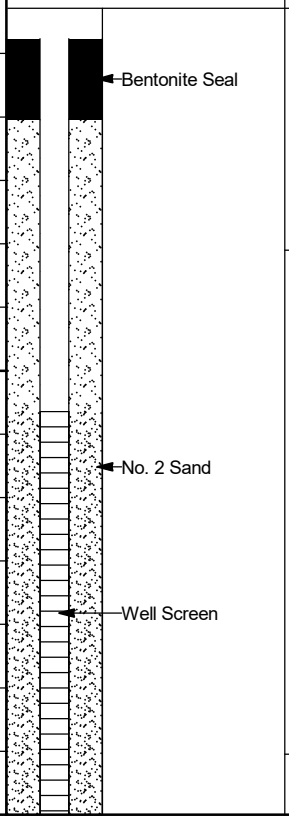
LMW-1 was developed with a whale pump and developed until the water ran free of fines. Approximately 5 gallons were purged.

Type of Casing: --	Diameter: --	Type of Backfill Material: No. 2 Sand	
Type of Screen: Schedule 40	Diameter: 2-inch	Type of Seal Material: Bentonite	
Borehole Diameter: 2-inch		Type of Filter Material: No. 2 Sand	

	Elevation	Depth
Top of Casing		0.5' bgs
Top of Seal		0.75' bgs
Top of Filter		2.75' bgs
Top of Screen		10' bgs
Bottom of Filter		20' bgs
Bottom of Well		20' bgs
Screen Length: 10.0'		Slot Size: 0.010

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	9.49'	2/7/2022



Soil / Rock Classification	Depth (ft)
FILL	0.5
	2.75
SAND	
PEAT	20

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WELL CONSTRUCTION SUMMARY

Well No. LMW-2

Well Permit No. --

Project: 213 Meadow Street	Project No.: 100964202
Location: LSB-4	Elevation And Datum: Approx. el 12 Brooklyn Highway Datum
Drilling Agency: AARCO Environmental Services Corp.	Date Started: 2/3/2022 / Date Finished: 2/3/2022
Drilling Equipment: Geoprobe 7822 DT	Driller: Jose Garcia
Size And Type of Bit: 2in Direct Push	Inspector: Morgan McBride

Method of Installation

A Geoprobe 7822 DT was used to advance LSB-4 to approximately 20-feet below ground surface. A two-inch Sch. 40 PVC well was installed consisting of approximately 10 feet of No. 10 (0.010-inch) screen packed with No. 2 sand and 10 feet of two-inch Sch. 40 PVC riser. The well was finished with a flush mount manhole cover and concrete pad.

Method of Well Development

LMW-2 was developed with a whale pump and developed until the water ran free of fines. Approximately 5 gallons were purged.

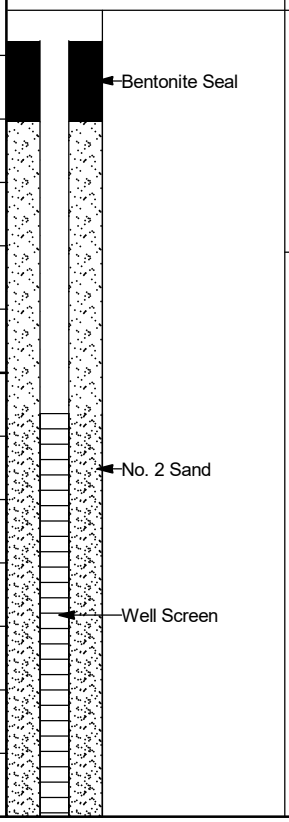
Type of Casing: --	Diameter: --	Type of Backfill Material: No. 2 Sand	
Type of Screen: Schedule 40	Diameter: 2-inch	Type of Seal Material: Bentonite	
Borehole Diameter: 2-inch		Type of Filter Material: No. 2 Sand	

	Elevation	Depth
Top of Casing		0.5' bgs
Top of Seal		0.75' bgs
Top of Filter		2.75' bgs
Top of Screen		10' bgs
Bottom of Filter		20' bgs
Bottom of Well		20' bgs

Screen Length	Slot Size
10.0'	0.010

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	9.91'	2/7/2022



Soil / Rock Classification	Depth (ft)
FILL	0.5
	2.75
SAND	
	20

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WELL CONSTRUCTION SUMMARY

Well No. LMW-3

Well Permit No. --

Project: 213 Meadow Street	Project No.: 100964202
Location: LSB-5	Elevation And Datum: Approx. el 12 Brooklyn Highway Datum
Drilling Agency: AARCO Environmental Services Corp.	Date Started: 2/4/2022 / Date Finished: 2/4/2022
Drilling Equipment: Geoprobe 7822 DT	Driller: Jose Garcia
Size And Type of Bit: 2in Direct Push	Inspector: Morgan McBride

Method of Installation

A Geoprobe 7822 DT was used to advance LSB-5 to approximately 20-feet below ground surface. A two-inch Sch. 40 PVC well was installed consisting of approximately 10 feet of No. 10 (0.010-inch) screen packed with No. 2 sand and 10 feet of two-inch Sch. 40 PVC riser. The well was finished with a flush mount manhole cover and concrete pad.

Method of Well Development

LMW-3 was developed with a whale pump and developed until the water ran free of fines. Approximately 5 gallons were purged.

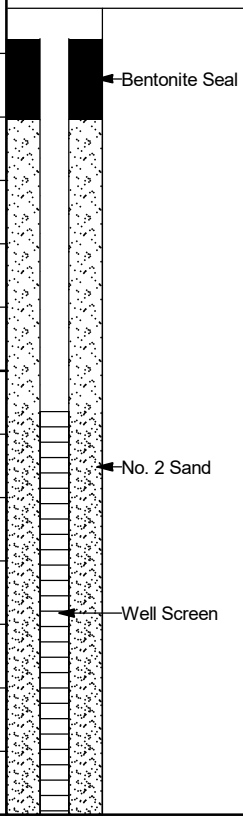
Type of Casing: --	Diameter: --	Type of Backfill Material: No. 2 Sand	
Type of Screen: Schedule 40	Diameter: 2-inch	Type of Seal Material: Bentonite	
Borehole Diameter: 2-inch		Type of Filter Material: No. 2 Sand	

	Elevation	Depth
Top of Casing		0.5' bgs
Top of Seal		0.75' bgs
Top of Filter		2.75' bgs
Top of Screen		10' bgs
Bottom of Filter		20' bgs
Bottom of Well		20' bgs

Screen Length	Slot Size
10.0'	0.010

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	10.45'	2/8/2022



Soil / Rock Classification	Depth (ft)
FILL	0.5
	2.75
SILT	
SAND	20

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WELL CONSTRUCTION SUMMARY

Well No. LMW-4

Well Permit No. --

Project: 213 Meadow Street	Project No.: 100964202
Location: LSB-6	Elevation And Datum: Approx. el 12 Brooklyn Highway Datum
Drilling Agency: AARCO Environmental Services Corp.	Date Started: 2/4/2022 / Date Finished: 2/4/2022
Drilling Equipment: Geoprobe 7822 DT	Driller: Jose Garcia
Size And Type of Bit: 2in Direct Push	Inspector: Morgan McBride

Method of Installation

A Geoprobe 7822 DT was used to advance LSB-6 to approximately 20-feet below ground surface. A two-inch Sch. 40 PVC well was installed consisting of approximately 10 feet of No. 10 (0.010-inch) screen packed with No. 2 sand and 10 feet of two-inch Sch. 40 PVC riser. The well was finished with a flush mount manhole cover and concrete pad.

Method of Well Development

LMW-4 was developed with a whale pump and developed until the water ran free of fines. Approximately 5 gallons were purged.

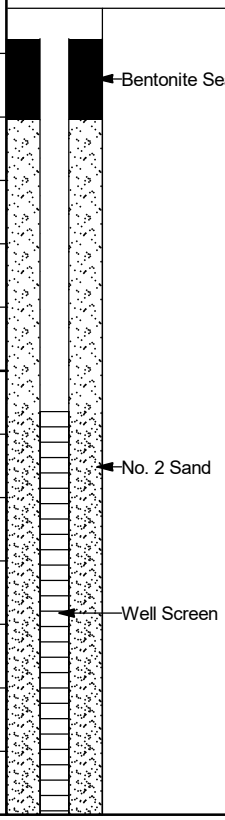
Type of Casing: --	Diameter: --	Type of Backfill Material: No. 2 Sand	
Type of Screen: Schedule 40	Diameter: 2-inch	Type of Seal Material: Bentonite	
Borehole Diameter: 2-inch		Type of Filter Material: No. 2 Sand	

	Elevation	Depth
Top of Casing		0.5' bgs
Top of Seal		0.75' bgs
Top of Filter		2.75' bgs
Top of Screen		10' bgs
Bottom of Filter		20' bgs
Bottom of Well		20' bgs

Screen Length	Slot Size
10.0'	0.010

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	11.47'	2/8/2022



Soil / Rock Classification	Depth (ft)
FILL	0.5
	2.75
CLAY	
PEAT	20

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ATTACHMENT C

FIELD SAMPLING SHEETS

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LOW FLOW SAMPLING FIELD PARAMETER MEASUREMENTS

Project:	213 Meadow Street	**Site Location:**	New York, NY	**Well No:**	LMW-1	**Date:**	2/7/2022
Job Number:	100964202	**Weather:**	30s, rainy/overcast	**Sampler(s):**	MMcB		
Initial DTW (ft):	9.49	**Well Depth (ft):**	20	**Pump Depth (ft):**	15		
Background PID (ppm):	0.00	**Well PID (ppm):**	0.00	**Screen Interval (ft):**	10-20		
Water Quality Meter:	Horiba U-52	**Water Quality Meter ID:**	BXDT	**Well Diameter (in):**	2"		

TIME	TEMP. °C	pH (std. Units)	ORP (mV)	COND. (mS/cm)	Turbidity (NTU)	DO (mg/L)	DTW (ft)	Q (mL/m)	COLOR?	ODOR?	NOTES
8:20	---	---	---	---	---	---	9.49	200	---	---	Begin Purging
8:25	13.53	7.02	-34.0	4.130	154.0	1.96	9.43	200	light brown	none	
8:30	14.09	6.99	-63.0	4.130	124.0	1.23	9.40	200	light brown	none	
8:35	14.17	6.95	-77.0	4.140	104.0	1.36	9.39	200	light brown	none	
8:40	14.27	6.93	-87.0	4.150	109.0	1.55	9.40	200	light brown	none	
8:45	14.24	6.92	-92.0	4.100	93.9	1.16	9.36	200	light brown	none	
8:50	14.17	6.91	-101.0	4.200	113.0	0.83	9.36	200	light brown	none	
8:55	14.08	6.90	-107.0	4.200	112.0	0.87	9.37	200	light brown	none	
9:00	14.07	6.91	-109.0	4.200	111.0	0.53	9.39	200	light brown	none	
9:05	14	6.91	-111.0	4.210	104.0	0.67	9.38	200	light brown	none	
9:10	13.94	6.91	-113.0	4.220	104.0	0.78	9.37	200	light brown	none	
9:15	13.62	6.92	-115.0	4.230	100.0	0.79	9.36	200	light brown	none	
9:20	13.46	6.92	-115.0	4.220	96.6	0.72	9.36	200	light brown	none	
9:25	13.39	6.92	-116.0	4.230	96.8	0.70	9.36	200	light brown	none	
9:30	13.34	6.92	-116.0	4.230	97.3	0.77	9.35	200	light brown	none	
	+/- 3%	+/- 0.1 pH	+/- 10 mV	+/- 3%	+/- 10 NTU	+/- 10%	<0.3' drawdown				

Notes:

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Sample Number:	032_LMW-1	Sample Time:	9:35	Sample Analyses:	VOCs, SVOCs, pesticides, PCBs, herbicides, total TAL metals, cyanide, trivalent and hexavalent chromium, 1,4-dioxane, PFAS
QA/QC Sample Number:	033_DUP-2	QA/QC Sample Time:	10:35	QA/QC Sample Analyses:	VOCs, SVOCs, pesticides, PCBs, herbicides, total TAL metals, cyanide, trivalent and hexavalent chromium, 1,4-dioxane, PFAS

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LOW FLOW SAMPLING FIELD PARAMETER MEASUREMENTS

Project:	213 Meadow Street	**Site Location:**	New York, NY	**Well No:**	LMW-2	**Date:**	2/7/2022
Job Number:	100964202	**Weather:**	30s, rainy/overcast	**Sampler(s):**	MMcB		
Initial DTW (ft):	9.91	**Well Depth (ft):**	20	**Pump Depth (ft):**	15		
Background PID (ppm):	0.00	**Well PID (ppm):**	0.00	**Screen Interval (ft):**	10-20		
Water Quality Meter:	Horiba U-52	**Water Quality Meter ID:**	BXDT	**Well Diameter (in):**	2"		

TIME	TEMP. °C	pH (std. Units)	ORP (mV)	COND. (mS/cm)	Turbidity (NTU)	DO (mg/L)	DTW (ft)	Q (mL/m)	COLOR?	ODOR?	NOTES
12:09	---	---	---	---	---	---	9.91	150	---	---	Begin Purging
12:15	11.67	8.18	-93.0	2.040	79.6	4.51	9.96	150	light brown	none	
12:20	11.92	8.17	-79.0	1.990	58.0	4.41	9.99	150	light brown	none	
12:25	11.79	8.10	-87.0	1.990	39.8	2.93	9.99	150	light brown	none	
12:30	11.42	8.08	-88.0	2.000	49.0	1.93	9.99	150	light brown	none	
12:35	11.22	8.06	-95.0	1.980	38.5	1.62	9.98	150	clear	none	
12:40	11.22	8.06	-95.0	1.980	38.5	1.62	9.98	150	clear	none	
12:45	11.16	8.03	-109.0	1.990	37.4	1.16	10.00	150	clear	none	
12:50	10.56	8.02	-113.0	2.010	36.6	0.55	10.00	150	clear	none	
12:55	10.41	8.00	-115.0	1.990	35.0	0.54	10.02	150	clear	none	
13:00	10.53	8.00	-119.0	1.990	35.1	0.49	10.02	150	clear	none	
	+/- 3%	+/- 0.1 pH	+/- 10 mV	+/- 3%	+/- 10 NTU	+/- 10%	<0.3' drawdown				

Notes:

Sample Number:	034_LMW-2	Sample Time:	13:05	Sample Analyses:	VOCs, SVOCs, pesticides, PCBs, herbicides, total TAL metals, cyanide, trivalent and hexavalent chromium, 1,4-dioxane, PFAS
QA/QC Sample Number:	–	QA/QC Sample Time:	–	QA/QC Sample Analyses:	–

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LOW FLOW SAMPLING FIELD PARAMETER MEASUREMENTS

Project:	213 Meadow Street	**Site Location:**	New York, NY	**Well No:**	LMW-3	**Date:**	2/8/2022
Job Number:	100964202	**Weather:**	30s, Sunny	**Sampler(s):**	MMcB		
Initial DTW (ft):	10.45	**Well Depth (ft):**	20	**Pump Depth (ft):**	15.5		
Background PID (ppm):	0.20	**Well PID (ppm):**	1.60	**Screen Interval (ft):**	10-20		
Water Quality Meter:	Horiba U-52	**Water Quality Meter ID:**	NA2A	**Well Diameter (in):**	2"		

TIME	TEMP. °C	pH (std. Units)	ORP (mV)	COND. (mS/cm)	Turbidity (NTU)	DO (mg/L)	DTW (ft)	Q (mL/m)	COLOR?	ODOR?	NOTES
13:30	---	---	---	---	---	---	10.45	200	---	---	Begin Purging
13:35	12.31	7.32	267.0	1.250	293.0	0.90	10.68	200	light brown	slight odor	
13:40	12.27	7.17	108.0	1.260	264.0	0.32	10.71	200	light brown	slight odor	
13:45	12.23	7.15	26.0	1.270	236.0	0.17	10.74	200	light brown	none	
13:50	12.19	7.15	-34.0	1.270	194.0	0.65	10.79	200	light brown	none	
13:55	12.12	7.15	-56.0	1.270	168.0	0.22	10.75	150	light brown	none	
14:00	12.07	7.15	-65.0	1.270	155.0	0.02	10.78	150	light brown	none	
14:05	12.04	7.15	-71.0	1.270	148.0	0.00	10.78	150	light brown	none	
14:10	12.01	7.15	-76.0	1.280	138.0	0.00	10.80	150	light brown	none	
14:15	11.91	7.20	-86.0	1.270	128.0	0.00	10.79	150	clear	none	
14:20	11.86	7.17	-83.0	1.270	92.3	0.00	10.80	150	clear	none	
14:25	11.77	7.16	-92.0	1.280	87.7	0.00	10.80	150	clear	none	
14:30	11.70	7.16	-94.0	1.280	69.0	0.00	10.81	150	clear	none	
14:40	11.50	7.17	-98.0	1.280	54.0	0.00	10.81	150	clear	none	
14:45	11.47	7.17	-98.0	1.280	52.7	0.00	10.81	150	clear	none	
14:50	11.42	7.18	-98.0	1.280	55.5	0.00	10.82	150	clear	none	
14:55	11.30	7.20	-100.0	1.280	57.9	0.00	10.82	150	clear	none	
	+/- 3%	+/- 0.1 pH	+/- 10 mV	+/- 3%	+/- 10 NTU	+/- 10%	<0.3' drawdown				

Notes:

Sample Number:	041_LMW-3	Sample Time:	15:00	Sample Analyses:	VOCs, SVOCs, pesticides, PCBs, herbicides, total TAL metals, cyanide, trivalent and hexavalent chromium, 1,4-dioxane, PFAS
QA/QC Sample Number:	–	QA/QC Sample Time:	–	QA/QC Sample Analyses:	–

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LOW FLOW SAMPLING FIELD PARAMETER MEASUREMENTS

Project:	213 Meadow Street	**Site Location:**	New York, NY	**Well No:**	LMW-4	**Date:**	2/8/2022
Job Number:	100964202	**Weather:**	30s, Sunny	**Sampler(s):**	MMcB		
Initial DTW (ft):	11.47	**Well Depth (ft):**	20	**Pump Depth (ft):**	15.75		
Background PID (ppm):	0.00	**Well PID (ppm):**	4.00	**Screen Interval (ft):**	10-20		
Water Quality Meter:	Horiba U-52	**Water Quality Meter ID:**	NA2A	**Well Diameter (in):**	2"		

TIME	TEMP. °C	pH (std. Units)	ORP (mV)	COND. (mS/cm)	Turbidity (NTU)	DO (mg/L)	DTW (ft)	Q (mL/m)	COLOR?	ODOR?	NOTES
8:30	---	---	---	---	---	---	11.47	150	---	---	Begin Purging
8:35	15.54	7.96	275.0	0.964	62.8	0.74	11.49	150	light brown	odor	
8:40	15.02	8.11	180.0	0.963	49.8	0.31	11.37	150	light brown	odor	
8:45	14.69	8.12	155.0	0.958	50.8	0.44	11.37	150	light brown	odor	
8:50	14.52	8.05	146.0	0.948	48.8	0.46	11.38	200	light brown	odor	
8:55	14.28	8.13	103.0	0.957	46.2	0.33	11.43	200	light brown	odor	
9:00	14.07	8.12	30.0	0.967	37.9	0.23	11.45	200	light brown	none	
9:05	13.95	8.12	-1.0	0.970	35.2	0.23	11.43	200	light brown	none	
9:10	13.66	7.77	227.0	0.293	81.1	3.47	11.42	200	light brown	none	
9:15	13.56	8.08	-35.0	0.997	74.4	0.32	11.47	200	light brown	none	
9:20	13.46	8.07	-51.0	1.000	58.2	0.15	11.48	200	clear	none	
9:25	13.34	8.05	-97.0	1.010	45.7	0.08	11.49	200	clear	none	
9:30	13.24	8.05	-124.0	1.020	41.2	0.06	11.50	200	clear	none	
9:35	13.14	8.05	-140.0	1.020	32.5	0.01	11.51	200	clear	none	
9:40	13.07	8.03	-147.0	1.020	29.1	0.01	11.52	200	clear	none	
9:45	13.02	8.01	-150.0	1.030	27.7	0.01	11.52	200	clear	none	
	+/- 3%	+/- 0.1 pH	+/- 10 mV	+/- 3%	+/- 10 NTU	+/- 10%	<0.3' drawdown				

Notes:

Sample Number:	040_LMW-4	Sample Time:	9:50	Sample Analyses:	VOCs, SVOCs, pesticides, PCBs, herbicides, total TAL metals, cyanide, trivalent and hexavalent chromium, 1,4-dioxane, PFAS
QA/QC Sample Number:	--	QA/QC Sample Time:	--	QA/QC Sample Analyses:	--

LANGAN

SUMMA CANISTER SAMPLING FIELD DATA SHEET

Site: 213 Meadow Street

Samplers: MMcB

Date: 2/8/2022

Sample #	044_LSV-1	045_LSV-2	046_LSV-3	042_LSV-4	043_DUP-3
Location	LSV-1	LSV-2	LSV-3	LSV-4	LSV-4
Summa Canister ID	36459	28317	10042	18302	28857
Flow Controller ID	5708	13568	7423	6879	7362
Sample Depth (b.g.s.)	8	10	8	8	8
Additional Tubing Added	NO/ (YES) - How much 2'	NO/ (YES) - How much 2'	NO/ (YES) - How much 2'	NO/ (YES) - How much 2'	NO/ (YES) - How much 2'
Purge Time (Start)	14:40	12:25	12:50	10:35	10:35
Purge Time (Stop)	14:45	12:30	12:55	10:40	10:40
Total Purge Time (min)	5	5	5	5	5
Purge Volume	1 L	1 L	1 L	1 L	1 L
PID Test of Purge Air	45	271	32	580	580
Initial Tracer Gas Results in sampling line	0%	0%	0%	0%	0%
Initial Tracer Gas Results in shroud	94.5%	97.4%	96.1%	92.6%	92.6%
Pressure Gauge - before sampling	-29	-30	-29	-30	-30
Sample Time (Start)	14:50	12:35	13:00	11:00	11:05
Sample Time (Stop)	16:50	14:50	15:20	13:30	13:30
Total Sample Time (min)	120	135	140	150	145
Pressure Gauge - after sampling	-2	-4	-3	-4	-3
Sample Volume	6 L	6 L	6 L	6 L	6 L
Canister Pressure Went to Ambient Pressure?	YES / (NO)	YES / (NO)	YES / (NO)	YES / (NO)	YES / (NO)
Final Tracer Gas Results in sampling line	--	--	--	--	--
Final Tracer Gas Results in shroud	--	--	--	--	--
Associated Ambient Air Sample Number	--	--	--	--	--
Weather 24 hours before and during sampling	30s, overcast and rain				
General Comments					

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ATTACHMENT D

LABORATORY ANALYTICAL DATA PACKAGES

LANGAN

Technical Report

prepared for:

Langan Engineering & Environmental Services (NJ)
300 Kimball Drive, 4th Floor
Parsipanny NJ, 07054-2172
Attention: Molly Mattern

Report Date: 02/25/2022
Client Project ID: 100964201
York Project (SDG) No.: 22B0179

Revision No. 1.0

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 02/25/2022
Client Project ID: 100964201
York Project (SDG) No.: 22B0179

Langan Engineering & Environmental Services (NJ)
300 Kimball Drive, 4th Floor
Parsipanny NJ, 07054-2172
Attention: Molly Mattern

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 03, 2022 and listed below. The project was identified as your project: **100964201**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22B0179-01	001_LSB-2_2-4	Soil	02/03/2022	02/03/2022
22B0179-03	003_LSB-3_2-4	Soil	02/03/2022	02/03/2022
22B0179-04	004_LSB-3_4-6	Soil	02/03/2022	02/03/2022
22B0179-05	005_LSB-3_8-10	Soil	02/03/2022	02/03/2022
22B0179-08	008_LSB-4_4-6	Soil	02/03/2022	02/03/2022
22B0179-10	010_TB-1	Water	02/03/2022	02/03/2022
22B0179-11	011_EB-1	Water	02/03/2022	02/03/2022

General Notes for York Project (SDG) No.: 22B0179

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By  **Date:** 02/25/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.043	0.086	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
78-93-3	**2-Butanone**	**0.0097**		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**0.035**	CCV-E	mg/kg dry	0.0043	0.0086	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0043	0.0086	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	**Methylene chloride**	**0.0066**	J	mg/kg dry	0.0043	0.0086	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0043	0.0086	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0064	0.013	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:30	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.9 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.100	0.200	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.100	0.200	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.100	0.200	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	**2-Methylnaphthalene**	**1.03**		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.100	0.200	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	**3- & 4-Methylphenols**	**0.0730**	J	mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.100	0.200	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.100	0.200	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.100	0.200	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.100	0.200	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	**Acenaphthene**	**2.24**		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	**Acenaphthylene**	**1.07**		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		mg/kg dry	0.201	0.402	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**5.52**		mg/kg dry	0.126	0.251	5	EPA 8270D	02/04/2022 13:28	02/10/2022 11:22	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		mg/kg dry	0.201	0.402	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	**Benzo(a)anthracene**	**10.3**		mg/kg dry	0.629	1.25	25	EPA 8270D	02/04/2022 13:28	02/10/2022 10:50	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**7.76**		mg/kg dry	0.126	0.251	5	EPA 8270D	02/04/2022 13:28	02/10/2022 11:22	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**6.54**		mg/kg dry	0.126	0.251	5	EPA 8270D	02/04/2022 13:28	02/10/2022 11:22	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	**Benzo(g,h,i)perylene**	**3.94**		mg/kg dry	0.126	0.251	5	EPA 8270D	02/04/2022 13:28	02/10/2022 11:22	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**6.45**		mg/kg dry	0.126	0.251	5	EPA 8270D	02/04/2022 13:28	02/10/2022 11:22	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0513**	J	mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		mg/kg dry	0.100	0.200	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	**Carbazole**	**0.955**		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**10.4**		mg/kg dry	0.629	1.25	25	EPA 8270D	02/04/2022 13:28	02/10/2022 10:50	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**1.31**		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**24.4**		mg/kg dry	0.629	1.25	25	EPA 8270D	02/04/2022 13:28	02/10/2022 10:50	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**3.45**		mg/kg dry	0.126	0.251	5	EPA 8270D	02/04/2022 13:28	02/10/2022 11:22	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**3.73**		mg/kg dry	0.126	0.251	5	EPA 8270D	02/04/2022 13:28	02/10/2022 11:22	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**0.885**		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**24.7**		mg/kg dry	0.629	1.25	25	EPA 8270D	02/04/2022 13:28	02/10/2022 10:50	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		mg/kg dry	0.0503	0.100	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**22.7**		mg/kg dry	0.629	1.25	25	EPA 8270D	02/04/2022 13:28	02/10/2022 10:50	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		mg/kg dry	0.201	0.402	2	EPA 8270D	02/04/2022 13:28	02/09/2022 16:52	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*89.4 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*81.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*70.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*79.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*105 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*89.4 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	02/05/2022 08:05	02/08/2022 14:47	KH
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*40.0 %*	*39-127.5*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.294	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:29	WL
							Certifications:			
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.294	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:29	WL
							Certifications:			
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.294	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:29	WL
							Certifications:			
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.294	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:29	WL
							Certifications:			
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.294	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:29	WL
							Certifications:			

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**0.504**		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**0.346**		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:29	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*68.2 %*	*25-150*
Surrogate: M5PFHxA	*76.0 %*	*25-150*
Surrogate: M4PFHpA	*54.8 %*	*25-150*
Surrogate: M3PFHxS	*83.1 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*91.3 %*	*25-150*
Surrogate: M6PFDA	*81.7 %*	*25-150*
Surrogate: M7PFUdA	*69.4 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*56.1 %*	*25-150*
Surrogate: M2PFTeDA	*45.4 %*	*10-150*

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*64.4 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*75.1 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*65.5 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*45.2 %*			*10-150*					
	Surrogate: d3-N-MeFOSAA	*104 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*91.3 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*155 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*170 %*			*25-200*					
	Surrogate: M9PFNA	*84.1 %*			*25-150*					

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	NELAC-NY10854,NJDEP		
319-85-7	beta-BHC	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		mg/kg dry	0.199	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
12789-03-6	* Chlordane, total	ND		mg/kg dry	0.0398	5	EPA 8081B	02/07/2022 08:21	02/09/2022 16:46	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*90.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*38.7 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0201	1	EPA 8082A	02/07/2022 08:21	02/07/2022 21:48	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0201	1	EPA 8082A	02/07/2022 08:21	02/07/2022 21:48	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0201	1	EPA 8082A	02/07/2022 08:21	02/07/2022 21:48	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0201	1	EPA 8082A	02/07/2022 08:21	02/07/2022 21:48	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0201	1	EPA 8082A	02/07/2022 08:21	02/07/2022 21:48	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0201	1	EPA 8082A	02/07/2022 08:21	02/07/2022 21:48	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0201	1	EPA 8082A	02/07/2022 08:21	02/07/2022 21:48	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0201	1	EPA 8082A	02/07/2022 08:21	02/07/2022 21:48	BJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.5 %*	*30-120*

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	*Surrogate: Decachlorobiphenyl*	*50.0 %*			*30-120*					

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0239	1	EPA 8151A	02/07/2022 15:00	02/08/2022 15:42	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0239	1	EPA 8151A	02/07/2022 15:00	02/08/2022 15:42	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
94-75-7	2,4-D	ND		mg/kg dry	0.0239	1	EPA 8151A	02/07/2022 15:00	02/08/2022 15:42	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*55.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**2490**		mg/kg dry	6.12	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-36-0	Antimony	ND		mg/kg dry	3.06	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**8.39**		mg/kg dry	1.83	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**199**		mg/kg dry	3.06	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/kg dry	0.061	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	**Cadmium**	**0.663**		mg/kg dry	0.367	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**11200**	B	mg/kg dry	6.12	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**16.0**		mg/kg dry	0.612	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**3.39**		mg/kg dry	0.489	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**137**		mg/kg dry	2.45	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**16300**		mg/kg dry	30.6	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**385**		mg/kg dry	0.612	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**1010**		mg/kg dry	6.12	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**145**		mg/kg dry	0.612	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**14.5**		mg/kg dry	1.22	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**437**		mg/kg dry	6.12	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	3.06	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	**Silver**	**2.05**		mg/kg dry	0.612	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**196**		mg/kg dry	61.2	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/kg dry	3.06	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**12.2**		mg/kg dry	1.22	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**275**		mg/kg dry	3.06	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:42	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.17**		mg/kg dry	0.0367	1	EPA 7473	02/08/2022 21:47	02/09/2022 14:04	BR
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.612	1	EPA 7196A	02/04/2022 08:47	02/04/2022 16:04	JAG
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 001_LSB-2_2-4 **York Sample ID:** 22B0179-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 10:35 am	02/03/2022

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**16.0**		mg/kg	0.500	1	Calculation	02/10/2022 13:16	02/10/2022 18:07	LRW
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.612	1	EPA 9014/9010C	02/04/2022 08:36	02/04/2022 14:42	TJA
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.7**		%	0.100	1	SM 2540G	02/04/2022 12:02	02/04/2022 16:07	MEW
							Certifications: CTDOH			

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
78-93-3	**2-Butanone**	**0.0066**		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**0.031**	CCV-E	mg/kg dry	0.0052	0.010	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0077	0.015	1	EPA 8260C	02/08/2022 06:52	02/08/2022 16:55	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.5 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0995	0.199	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0995	0.199	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0995	0.199	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-57-6	**2-Methylnaphthalene**	**0.0621**	J	mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0995	0.199	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0995	0.199	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0995	0.199	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0995	0.199	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0995	0.199	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	**Acenaphthene**	**0.0851**	J	mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	**Acenaphthylene**	**0.0740**	J	mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		mg/kg dry	0.199	0.399	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**0.253**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		mg/kg dry	0.199	0.399	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	**Benzo(a)anthracene**	**0.944**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**0.952**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**0.741**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	**Benzo(g,h,i)perylene**	**0.606**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**0.730**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		mg/kg dry	0.0995	0.199	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	**Carbazole**	**0.0644**	J	mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**1.02**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**0.207**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**1.79**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**0.103**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.520**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**0.154**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**0.995**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**1.78**		mg/kg dry	0.0499	0.0995	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		mg/kg dry	0.199	0.399	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:23	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*52.3 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*46.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*44.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*49.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*53.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*54.2 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.4	1	EPA 8270D SIM	02/05/2022 08:05	02/08/2022 15:04	KH
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*40.0 %*	*39-127.5*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.299	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:41	WL
							Certifications:			
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.299	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:41	WL
							Certifications:			
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.299	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:41	WL
							Certifications:			
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.299	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:41	WL
							Certifications:			
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.299	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:41	WL
							Certifications:			

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**0.420**		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:41	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*76.5 %*	*25-150*
Surrogate: M5PFHxA	*85.8 %*	*25-150*
Surrogate: M4PFHpA	*74.2 %*	*25-150*
Surrogate: M3PFHxS	*98.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*89.0 %*	*25-150*
Surrogate: M6PFDA	*89.5 %*	*25-150*
Surrogate: M7PFUdA	*85.3 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*71.0 %*	*25-150*
Surrogate: M2PFTeDA	*52.3 %*	*10-150*

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*76.0 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*85.5 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*78.3 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.8 %*			*10-150*					
	Surrogate: d3-N-MeFOSAA	*97.7 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*105 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*158 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*139 %*			*25-200*					
	Surrogate: M9PFNA	*95.8 %*			*25-150*					

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	NELAC-NY10854,NJDEP		
319-85-7	beta-BHC	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		mg/kg dry	0.196	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
12789-03-6	* Chlordane, total	ND		mg/kg dry	0.0393	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:02	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*86.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.9 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0198	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:02	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0198	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:02	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0198	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:02	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0198	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:02	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0198	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:02	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0198	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:02	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0198	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:02	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0198	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:02	BJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*62.5 %*	*30-120*

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	*Surrogate: Decachlorobiphenyl*	*51.0 %*			*30-120*					

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0242	1	EPA 8151A	02/07/2022 15:00	02/08/2022 15:53	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0242	1	EPA 8151A	02/07/2022 15:00	02/08/2022 15:53	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
94-75-7	2,4-D	ND		mg/kg dry	0.0242	1	EPA 8151A	02/07/2022 15:00	02/08/2022 15:53	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (*	*31.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7810**		mg/kg dry	6.07	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	3.03	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**5.64**		mg/kg dry	1.82	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**466**		mg/kg dry	3.03	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/kg dry	0.061	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**1.32**		mg/kg dry	0.364	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**15900**	B	mg/kg dry	6.07	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**19.3**		mg/kg dry	0.607	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**7.64**		mg/kg dry	0.485	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**303**		mg/kg dry	2.43	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**26400**		mg/kg dry	30.3	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**531**		mg/kg dry	0.607	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**2930**		mg/kg dry	6.07	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**268**		mg/kg dry	0.607	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**17.3**		mg/kg dry	1.21	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**1590**		mg/kg dry	6.07	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	3.03	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.607	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**386**		mg/kg dry	60.7	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/kg dry	3.03	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**28.1**		mg/kg dry	1.21	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**873**		mg/kg dry	3.03	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:45	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.868**		mg/kg dry	0.0364	1	EPA 7473	02/08/2022 21:47	02/09/2022 14:12	BR
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.607	1	EPA 7196A	02/04/2022 08:47	02/04/2022 16:04	JAG
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 003_LSB-3_2-4 **York Sample ID:** 22B0179-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:10 pm	02/03/2022

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	19.3		mg/kg	0.500	1	Calculation	02/10/2022 13:16	02/10/2022 18:07	LRW
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	1.01		mg/kg dry	0.607	1	EPA 9014/9010C	02/04/2022 08:36	02/04/2022 14:42	TJA
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	82.4		%	0.100	1	SM 2540G	02/04/2022 12:02	02/04/2022 16:07	MEW
							Certifications: CTDOH			

Sample Information

Client Sample ID: 004_LSB-3_4-6 **York Sample ID:** 22B0179-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:15 pm	02/03/2022

Semivolatiles, 8270 PAH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	**Acenaphthene**	**0.130**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**0.522**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
56-55-3	**Benzo(a)anthracene**	**0.778**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**0.676**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**0.448**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	**Benzo(g,h,i)perylene**	**0.354**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**0.538**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**0.730**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**0.133**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**1.66**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**0.189**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.312**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**0.0525**	J, HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	**Phenanthrene**	**1.74**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	**Pyrene**	**1.84**	HT-01	mg/kg dry	0.0457	0.0912	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:03	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result		Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*86.4 %*	HT-01	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*78.2 %*	HT-01	*21-113*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*90.2 %*	HT-01	*24-116*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 004_LSB-3_4-6 **York Sample ID:** 22B0179-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:15 pm	02/03/2022

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10500**		mg/kg dry	5.63	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	**Antimony**	**4.04**		mg/kg dry	2.82	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/kg dry	1.69	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**76.1**		mg/kg dry	2.82	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/kg dry	0.338	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**5930**		mg/kg dry	5.63	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**20.7**		mg/kg dry	0.563	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**10.9**		mg/kg dry	0.451	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**39.7**		mg/kg dry	2.25	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**23100**		mg/kg dry	28.2	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**88.2**		mg/kg dry	0.563	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**2900**		mg/kg dry	5.63	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**629**		mg/kg dry	0.563	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**20.3**		mg/kg dry	1.13	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1540**	B	mg/kg dry	5.63	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.82	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.563	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**221**		mg/kg dry	56.3	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.82	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**35.3**		mg/kg dry	1.13	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**53.7**		mg/kg dry	2.82	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:04	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 004_LSB-3_4-6 **York Sample ID:** 22B0179-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:15 pm	02/03/2022

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.23**		mg/kg dry	0.0338	1	EPA 7473	02/23/2022 19:56	02/24/2022 12:15	BR
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.8**		%	0.100	1	SM 2540G	02/22/2022 17:36	02/22/2022 20:01	MEW
							Certifications: CTDOH			

Sample Information

Client Sample ID: 005_LSB-3_8-10 **York Sample ID:** 22B0179-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:20 pm	02/03/2022

Semivolatiles, 8270 PAH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	**2-Methylnaphthalene**	**0.113**	HT-01	mg/kg dry	0.0481	0.0959	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:34	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	**Acenaphthene**	**0.383**	HT-01	mg/kg dry	0.0481	0.0959	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:34	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND	HT-01	mg/kg dry	0.0481	0.0959	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:34	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**0.489**	HT-01	mg/kg dry	0.0481	0.0959	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:34	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
56-55-3	**Benzo(a)anthracene**	**5.09**		mg/kg dry	0.240	0.479	10	EPA 8270D	02/21/2022 12:49	02/22/2022 15:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**0.922**	HT-01	mg/kg dry	0.0481	0.0959	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:34	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**3.62**		mg/kg dry	0.240	0.479	10	EPA 8270D	02/21/2022 12:49	02/22/2022 15:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	**Benzo(g,h,i)perylene**	**2.89**	HT-01	mg/kg dry	0.0481	0.0959	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:34	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**3.57**		mg/kg dry	0.240	0.479	10	EPA 8270D	02/21/2022 12:49	02/22/2022 15:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**5.43**		mg/kg dry	0.240	0.479	10	EPA 8270D	02/21/2022 12:49	02/22/2022 15:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**0.823**	HT-01	mg/kg dry	0.0481	0.0959	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:34	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**8.77**		mg/kg dry	0.240	0.479	10	EPA 8270D	02/21/2022 12:49	02/22/2022 15:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**0.323**	HT-01	mg/kg dry	0.0481	0.0959	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:34	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2.26**	HT-01	mg/kg dry	0.0481	0.0959	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:34	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**0.382**	HT-01	mg/kg dry	0.0481	0.0959	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:34	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	**Phenanthrene**	**1.40**	HT-01	mg/kg dry	0.0481	0.0959	2	EPA 8270D	02/21/2022 12:49	02/22/2022 11:34	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	**Pyrene**	**8.10**		mg/kg dry	0.240	0.479	10	EPA 8270D	02/21/2022 12:49	02/22/2022 15:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result		Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*79.0 %*	HT-01	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*80.0 %*	HT-01	*21-113*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*97.8 %*	HT-01	*24-116*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 005_LSB-3_8-10 **York Sample ID:** 22B0179-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:20 pm	02/03/2022

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6270**		mg/kg dry	5.81	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	2.90	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**2.64**		mg/kg dry	1.74	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**88.8**		mg/kg dry	2.90	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/kg dry	0.348	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**2780**		mg/kg dry	5.81	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**16.0**		mg/kg dry	0.581	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**6.92**		mg/kg dry	0.464	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**39.9**		mg/kg dry	2.32	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**14900**		mg/kg dry	29.0	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**114**		mg/kg dry	0.581	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**1430**		mg/kg dry	5.81	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**294**		mg/kg dry	0.581	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**15.6**		mg/kg dry	1.16	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**993**	B	mg/kg dry	5.81	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.90	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.581	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**206**		mg/kg dry	58.1	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.90	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**28.6**		mg/kg dry	1.16	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**56.5**		mg/kg dry	2.90	1	EPA 6010D	02/23/2022 15:24	02/24/2022 16:06	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 005_LSB-3_8-10 **York Sample ID:** 22B0179-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 12:20 pm	02/03/2022

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.632**		mg/kg dry	0.0348	1	EPA 7473	02/23/2022 19:56	02/24/2022 13:12	BR
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.1**		%	0.100	1	SM 2540G	02/22/2022 17:36	02/22/2022 20:01	MEW
							Certifications: CTDOH			

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
78-93-3	**2-Butanone**	**0.0028**	J	mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**0.017**	CCV-E	mg/kg dry	0.0054	0.011	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	**Carbon disulfide**	**0.033**		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	**Methylene chloride**	**0.0056**	J	mg/kg dry	0.0054	0.011	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260C	02/08/2022 06:52	02/08/2022 17:58	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.9 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*76-130*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.107	0.214	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.107	0.214	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.107	0.214	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.107	0.214	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.107	0.214	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.107	0.214	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.107	0.214	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.107	0.214	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	**Acenaphthene**	**0.771**		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	**Acenaphthylene**	**0.0539**	J	mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		mg/kg dry	0.214	0.429	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**2.67**		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		mg/kg dry	0.214	0.429	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	**Benzo(a)anthracene**	**3.97**		mg/kg dry	0.268	0.535	10	EPA 8270D	02/04/2022 13:28	02/10/2022 11:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**3.01**		mg/kg dry	0.268	0.535	10	EPA 8270D	02/04/2022 13:28	02/10/2022 11:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**2.68**		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	**Benzo(g,h,i)perylene**	**1.93**		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**2.65**		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	**Benzyl butyl phthalate**	**0.750**		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**4.24**		mg/kg dry	0.268	0.535	10	EPA 8270D	02/04/2022 13:28	02/10/2022 11:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		mg/kg dry	0.107	0.214	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	**Carbazole**	**0.741**		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**3.55**		mg/kg dry	0.268	0.535	10	EPA 8270D	02/04/2022 13:28	02/10/2022 11:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**0.772**		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	**Di-n-octyl phthalate**	**0.0941**	J	mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**9.98**		mg/kg dry	0.268	0.535	10	EPA 8270D	02/04/2022 13:28	02/10/2022 11:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**0.810**		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.84**		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**0.0650**	J	mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**6.20**		mg/kg dry	0.268	0.535	10	EPA 8270D	02/04/2022 13:28	02/10/2022 11:54	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		mg/kg dry	0.0537	0.107	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**7.73**		mg/kg dry	0.268	0.535	10	EPA 8270D	02/04/2022 13:28	02/10/2022 11:54	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		mg/kg dry	0.214	0.429	2	EPA 8270D	02/04/2022 13:28	02/09/2022 17:54	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*61.4 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*56.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*54.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*76.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*81.6 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	02/05/2022 08:05	02/08/2022 15:21	KH
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*40.0 %*	*39-127.5*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.296	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:54	WL
							Certifications:			
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.296	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:54	WL
							Certifications:			
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.296	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:54	WL
							Certifications:			
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.296	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:54	WL
							Certifications:			
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**0.518**		ug/kg dry	0.296	1	EPA 537m	02/04/2022 16:01	02/08/2022 18:54	WL
							Certifications:			

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**10.7**		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
335-76-2	* **Perfluorodecanoic acid (PFDA)**	**0.392**		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
2355-31-9	* **N-MeFOSAA**	**1.08**		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
2991-50-6	* **N-EtFOSAA**	**2.63**		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
335-77-3	* **Perfluoro-1-decanesulfonic acid (PFDS)**	**0.323**		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.296	1	EPA 537m Certifications:	02/04/2022 16:01	02/08/2022 18:54	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*74.2 %*	*25-150*
Surrogate: M5PFHxA	*80.2 %*	*25-150*
Surrogate: M4PFHpA	*58.6 %*	*25-150*
Surrogate: M3PFHxS	*80.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*99.6 %*	*25-150*
Surrogate: M6PFDA	*87.9 %*	*25-150*
Surrogate: M7PFUdA	*70.3 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*54.3 %*	*25-150*
Surrogate: M2PFTeDA	*42.6 %*	*10-150*

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*68.0 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*82.1 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*71.5 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*47.2 %*			*10-150*					
	Surrogate: d3-N-MeFOSAA	*94.6 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*96.6 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*193 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*165 %*			*25-200*					
	Surrogate: M9PFNA	*99.3 %*			*25-150*					

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	NELAC-NY10854,NJDEP		
319-85-7	beta-BHC	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		mg/kg dry	0.210	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
12789-03-6	* Chlordane, total	ND		mg/kg dry	0.0419	5	EPA 8081B	02/07/2022 08:21	02/09/2022 17:19	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*74.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*30.1 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:16	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:16	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:16	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:16	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:16	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	**Aroclor 1254**	**0.0754**	PCB-I	mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:16	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:16	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
1336-36-3	*** Total PCBs**	**0.0754**		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 08:21	02/07/2022 22:16	BJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.5 %*	*30-120*

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.5 %*			*30-120*					

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0253	1	EPA 8151A	02/07/2022 15:00	02/08/2022 16:04	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0253	1	EPA 8151A	02/07/2022 15:00	02/08/2022 16:04	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
94-75-7	2,4-D	ND		mg/kg dry	0.0253	1	EPA 8151A	02/07/2022 15:00	02/08/2022 16:04	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*76.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9610**		mg/kg dry	6.44	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-36-0	Antimony	ND		mg/kg dry	3.22	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**4.77**		mg/kg dry	1.93	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**184**		mg/kg dry	3.22	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/kg dry	0.064	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	**Cadmium**	**0.869**		mg/kg dry	0.386	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**50100**	B	mg/kg dry	6.44	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**39.1**		mg/kg dry	0.644	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**8.78**		mg/kg dry	0.515	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**253**		mg/kg dry	2.58	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**18100**		mg/kg dry	32.2	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**172**		mg/kg dry	0.644	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**6010**		mg/kg dry	6.44	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**350**		mg/kg dry	0.644	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**19.4**		mg/kg dry	1.29	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**1510**		mg/kg dry	6.44	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	3.22	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.644	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**347**		mg/kg dry	64.4	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/kg dry	3.22	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**27.6**		mg/kg dry	1.29	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**257**		mg/kg dry	3.22	1	EPA 6010D	02/07/2022 19:49	02/08/2022 15:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0948**		mg/kg dry	0.0386	1	EPA 7473	02/08/2022 21:47	02/09/2022 14:21	BR
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.644	1	EPA 7196A	02/04/2022 08:47	02/04/2022 16:04	JAG
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 008_LSB-4_4-6 **York Sample ID:** 22B0179-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Soil	February 3, 2022 1:40 pm	02/03/2022

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	39.1		mg/kg	0.500	1	Calculation	02/10/2022 13:16	02/10/2022 18:07	LRW
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.719		mg/kg dry	0.644	1	EPA 9014/9010C	02/04/2022 08:36	02/04/2022 14:42	TJA
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	77.6		%	0.100	1	SM 2540G	02/04/2022 12:02	02/04/2022 16:07	MEW
							Certifications: CTDOH			

Sample Information

Client Sample ID: 010_TB-1 **York Sample ID:** 22B0179-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Water	February 3, 2022 3:00 pm	02/03/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 010_TB-1 **York Sample ID:** 22B0179-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Water	February 3, 2022 3:00 pm	02/03/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 010_TB-1 **York Sample ID:** 22B0179-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Water	February 3, 2022 3:00 pm	02/03/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	**Methylene chloride**	**1.67**		ug/L	1.00	2.00	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 010_TB-1 **York Sample ID:** 22B0179-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Water	February 3, 2022 3:00 pm	02/03/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	02/04/2022 06:26	02/04/2022 17:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*112 %*	*79-122*

Sample Information

Client Sample ID: 011_EB-1 **York Sample ID:** 22B0179-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Water	February 3, 2022 3:50 pm	02/03/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	2.31	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL

Sample Information

Client Sample ID: 011_EB-1 **York Sample ID:** 22B0179-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0179	100964201	Water	February 3, 2022 3:50 pm	02/03/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.926	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 18:25	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*92.6 %*	*25-150*
Surrogate: M5PFHxA	*98.0 %*	*25-150*
Surrogate: M4PFHpA	*98.4 %*	*25-150*
Surrogate: M3PFHxS	*94.9 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*98.5 %*	*25-150*
Surrogate: M6PFDA	*109 %*	*25-150*
Surrogate: M7PFUdA	*90.2 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*71.4 %*	*25-150*
Surrogate: M2PFTeDA	*52.7 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*95.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*102 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*95.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*22.0 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*73.5 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*66.5 %*	*25-150*
Surrogate: M2-6:2 FTS	*82.6 %*	*25-200*
Surrogate: M2-8:2 FTS	*132 %*	*25-200*
Surrogate: M9PFNA	*109 %*	*25-150*

Analytical Batch Summary

Batch ID: BB21398 **Preparation Method:** Analysis Preparation Soil **Prepared By:** TJA

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-01	001_LSB-2_2-4	02/04/22
22B0179-03	003_LSB-3_2-4	02/04/22
22B0179-08	008_LSB-4_4-6	02/04/22
BB21398-BLK1	Blank	02/04/22
BB21398-DUP1	Duplicate	02/04/22
BB21398-MS1	Matrix Spike	02/04/22
BB21398-SRM1	Reference	02/04/22

Batch ID: BB21404 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-01	001_LSB-2_2-4	02/04/22
22B0179-03	003_LSB-3_2-4	02/04/22
22B0179-08	008_LSB-4_4-6	02/04/22
BB21404-BLK1	Blank	02/04/22
BB21404-DUP1	Duplicate	02/04/22
BB21404-MS1	Matrix Spike	02/04/22
BB21404-SRM1	Reference	02/04/22

Batch ID: BB21417 **Preparation Method:** % Solids Prep **Prepared By:** MEW

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-01	001_LSB-2_2-4	02/04/22
22B0179-03	003_LSB-3_2-4	02/04/22
22B0179-08	008_LSB-4_4-6	02/04/22
BB21417-DUP1	Duplicate	02/04/22

Batch ID: BB21428 **Preparation Method:** EPA 3546 SVOA **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-01	001_LSB-2_2-4	02/04/22
22B0179-01RE1	001_LSB-2_2-4	02/04/22
22B0179-01RE2	001_LSB-2_2-4	02/04/22
22B0179-03	003_LSB-3_2-4	02/04/22
22B0179-08	008_LSB-4_4-6	02/04/22
22B0179-08RE1	008_LSB-4_4-6	02/04/22
BB21428-BLK1	Blank	02/04/22
BB21428-BS1	LCS	02/04/22
BB21428-MS1	Matrix Spike	02/04/22
BB21428-MSD1	Matrix Spike Dup	02/04/22

Batch ID: BB21444 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** WEL

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-01	001_LSB-2_2-4	02/04/22
22B0179-03	003_LSB-3_2-4	02/04/22
22B0179-08	008_LSB-4_4-6	02/04/22
BB21444-BLK1	Blank	02/04/22
BB21444-BS1	LCS	02/04/22
BB21444-MS1	Matrix Spike	02/04/22
BB21444-MSD1	Matrix Spike Dup	02/04/22

Batch ID: BB21456 **Preparation Method:** EPA 3550C/8151A **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-01	001_LSB-2_2-4	02/07/22
22B0179-03	003_LSB-3_2-4	02/07/22
22B0179-08	008_LSB-4_4-6	02/07/22
BB21456-BLK1	Blank	02/07/22
BB21456-BS1	LCS	02/07/22
BB21456-MS1	Matrix Spike	02/07/22
BB21456-MSD1	Matrix Spike Dup	02/07/22

Batch ID: BB21457 **Preparation Method:** EPA 3550C **Prepared By:** GXB

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-01	001_LSB-2_2-4	02/05/22
22B0179-03	003_LSB-3_2-4	02/05/22
22B0179-08	008_LSB-4_4-6	02/05/22
BB21457-BLK1	Blank	02/05/22
BB21457-BS1	LCS	02/05/22
BB21457-MS1	Matrix Spike	02/05/22
BB21457-MS2	Matrix Spike	02/05/22
BB21457-MSD1	Matrix Spike Dup	02/05/22
BB21457-MSD2	Matrix Spike Dup	02/05/22

Batch ID: BB21469 **Preparation Method:** EPA 3550C **Prepared By:** NN

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-01	001_LSB-2_2-4	02/07/22
22B0179-01	001_LSB-2_2-4	02/07/22
22B0179-03	003_LSB-3_2-4	02/07/22
22B0179-03	003_LSB-3_2-4	02/07/22
22B0179-08	008_LSB-4_4-6	02/07/22
22B0179-08	008_LSB-4_4-6	02/07/22
BB21469-BLK1	Blank	02/07/22
BB21469-BLK2	Blank	02/07/22
BB21469-BS1	LCS	02/07/22
BB21469-BS2	LCS	02/07/22
BB21469-MS1	Matrix Spike	02/07/22
BB21469-MS2	Matrix Spike	02/07/22
BB21469-MSD1	Matrix Spike Dup	02/07/22

BB21469-MSD2	Matrix Spike Dup	02/07/22

Batch ID: BB21486 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** WEL

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-11	011_EB-1	02/07/22
BB21486-BLK1	Blank	02/07/22
BB21486-BS1	LCS	02/07/22
BB21486-BSD1	LCS Dup	02/07/22

Batch ID: BB21504 **Preparation Method:** EPA 5030B **Prepared By:** BMC

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-10	010_TB-1	02/04/22
BB21504-BLK1	Blank	02/04/22
BB21504-BS1	LCS	02/04/22
BB21504-BSD1	LCS Dup	02/04/22

Batch ID: BB21541 **Preparation Method:** EPA 3050B **Prepared By:** K T

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-01	001_LSB-2_2-4	02/07/22
22B0179-03	003_LSB-3_2-4	02/07/22
22B0179-08	008_LSB-4_4-6	02/07/22
BB21541-BLK1	Blank	02/07/22
BB21541-DUP1	Duplicate	02/07/22
BB21541-MS1	Matrix Spike	02/07/22
BB21541-PS1	Post Spike	02/07/22
BB21541-SRM1	Reference	02/07/22

Batch ID: BB21592 **Preparation Method:** EPA 5035A **Prepared By:** BMC

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-01	001_LSB-2_2-4	02/08/22
22B0179-03	003_LSB-3_2-4	02/08/22
22B0179-08	008_LSB-4_4-6	02/08/22
BB21592-BLK1	Blank	02/08/22
BB21592-BS1	LCS	02/08/22
BB21592-BSD1	LCS Dup	02/08/22

Batch ID: BB21623 **Preparation Method:** EPA 7473 soil **Prepared By:** K T

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-01	001_LSB-2_2-4	02/08/22
22B0179-03	003_LSB-3_2-4	02/08/22
22B0179-08	008_LSB-4_4-6	02/08/22
BB21623-BLK1	Blank	02/08/22
BB21623-DUP1	Duplicate	02/08/22

BB21623-MS1	Matrix Spike	02/08/22
BB21623-SRM1	Reference	02/08/22

Batch ID: BB21753 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-01	001_LSB-2_2-4	02/10/22
22B0179-03	003_LSB-3_2-4	02/10/22
22B0179-08	008_LSB-4_4-6	02/10/22

Batch ID: BB22288 **Preparation Method:** EPA 3546 SVOA **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-04	004_LSB-3_4-6	02/21/22
22B0179-05	005_LSB-3_8-10	02/21/22
22B0179-05RE1	005_LSB-3_8-10	02/21/22
BB22288-BLK1	Blank	02/21/22
BB22288-BS1	LCS	02/21/22
BB22288-MS1	Matrix Spike	02/21/22
BB22288-MSD1	Matrix Spike Dup	02/21/22

Batch ID: BB22423 **Preparation Method:** % Solids Prep **Prepared By:** MEW

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-04	004_LSB-3_4-6	02/22/22
22B0179-05	005_LSB-3_8-10	02/22/22
BB22423-DUP1	Duplicate	02/22/22

Batch ID: BB22490 **Preparation Method:** EPA 3050B **Prepared By:** S_G

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-04	004_LSB-3_4-6	02/23/22
22B0179-05	005_LSB-3_8-10	02/23/22
BB22490-BLK1	Blank	02/23/22
BB22490-DUP1	Duplicate	02/23/22
BB22490-MS1	Matrix Spike	02/23/22
BB22490-PS1	Post Spike	02/23/22
BB22490-SRM1	Reference	02/23/22

Batch ID: BB22514 **Preparation Method:** EPA 7473 soil **Prepared By:** S_G

YORK Sample ID	Client Sample ID	Preparation Date
22B0179-04	004_LSB-3_4-6	02/23/22
22B0179-05	005_LSB-3_8-10	02/23/22
BB22514-BLK1	Blank	02/23/22
BB22514-DUP1	Duplicate	02/23/22
BB22514-MS1	Matrix Spike	02/23/22
BB22514-SRM1	Reference	02/23/22

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21504 - EPA 5030B											
Blank (BB21504-BLK1) Blank									Prepared & Analyzed: 02/04/2022		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2,2-Dichloropropane	ND	0.500	"								
2-Butanone	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21504 - EPA 5030B											
Blank (BB21504-BLK1) Blank									Prepared & Analyzed: 02/04/2022		
Hexachlorobutadiene	ND	0.500	ug/L								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl acetate	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.1*		*"*	*10.0*		*111*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21504 - EPA 5030B											
LCS (BB21504-BS1) LCS							Prepared & Analyzed: 02/04/2022				
1,1,1,2-Tetrachloroethane	9.12		ug/L	10.0		91.2	82-126				
1,1,1-Trichloroethane	9.28		"	10.0		92.8	78-136				
1,1,2,2-Tetrachloroethane	10.0		"	10.0		100	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7		"	10.0		107	54-165				
1,1,2-Trichloroethane	9.01		"	10.0		90.1	82-123				
1,1-Dichloroethane	9.73		"	10.0		97.3	82-129				
1,1-Dichloroethylene	11.0		"	10.0		110	68-138				
1,1-Dichloropropylene	9.30		"	10.0		93.0	83-133				
1,2,3-Trichlorobenzene	7.58		"	10.0		75.8	76-136	Low Bias			
1,2,3-Trichloropropane	9.54		"	10.0		95.4	77-128				
1,2,4-Trichlorobenzene	7.92		"	10.0		79.2	76-137				
1,2,4-Trimethylbenzene	10.1		"	10.0		101	82-132				
1,2-Dibromo-3-chloropropane	8.38		"	10.0		83.8	45-147				
1,2-Dibromoethane	9.17		"	10.0		91.7	83-124				
1,2-Dichlorobenzene	9.76		"	10.0		97.6	79-123				
1,2-Dichloroethane	9.68		"	10.0		96.8	73-132				
1,2-Dichloropropane	10.6		"	10.0		106	78-126				
1,3,5-Trimethylbenzene	10.2		"	10.0		102	80-131				
1,3-Dichlorobenzene	9.17		"	10.0		91.7	86-122				
1,3-Dichloropropane	9.41		"	10.0		94.1	81-125				
1,4-Dichlorobenzene	9.39		"	10.0		93.9	85-124				
1,4-Dioxane	227		"	210		108	10-349				
2,2-Dichloropropane	9.04		"	10.0		90.4	56-150				
2-Butanone	9.56		"	10.0		95.6	49-152				
2-Chlorotoluene	10.4		"	10.0		104	79-130				
2-Hexanone	10.1		"	10.0		101	51-146				
4-Chlorotoluene	10.5		"	10.0		105	79-128				
4-Methyl-2-pentanone	10.0		"	10.0		100	57-145				
Acetone	9.86		"	10.0		98.6	14-150				
Acrolein	5.28		"	10.0		52.8	10-153				
Acrylonitrile	11.4		"	10.0		114	51-150				
Benzene	9.78		"	10.0		97.8	85-126				
Bromobenzene	10.2		"	10.0		102	78-129				
Bromochloromethane	10.0		"	10.0		100	77-128				
Bromodichloromethane	9.41		"	10.0		94.1	79-128				
Bromoform	8.20		"	10.0		82.0	78-133				
Bromomethane	5.07		"	10.0		50.7	43-168				
Carbon disulfide	10.6		"	10.0		106	68-146				
Carbon tetrachloride	9.42		"	10.0		94.2	77-141				
Chlorobenzene	9.94		"	10.0		99.4	88-120				
Chloroethane	11.0		"	10.0		110	65-136				
Chloroform	9.53		"	10.0		95.3	82-128				
Chloromethane	10.2		"	10.0		102	43-155				
cis-1,2-Dichloroethylene	9.78		"	10.0		97.8	83-129				
cis-1,3-Dichloropropylene	9.43		"	10.0		94.3	80-131				
Cyclohexane	7.98		"	10.0		79.8	63-149				
Dibromochloromethane	8.57		"	10.0		85.7	80-130				
Dibromomethane	9.32		"	10.0		93.2	72-134				
Dichlorodifluoromethane	16.2		"	10.0		162	44-144	High Bias			
Ethyl Benzene	10.6		"	10.0		106	80-131				
Hexachlorobutadiene	10.0		"	10.0		100	67-146				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21504 - EPA 5030B											
LCS (BB21504-BS1) LCS								Prepared & Analyzed: 02/04/2022			
Isopropylbenzene	10.9		ug/L	10.0		109	76-140				
Methyl acetate	8.95		"	10.0		89.5	51-139				
Methyl tert-butyl ether (MTBE)	9.15		"	10.0		91.5	76-135				
Methylcyclohexane	10.6		"	10.0		106	72-143				
Methylene chloride	9.73		"	10.0		97.3	55-137				
n-Butylbenzene	10.5		"	10.0		105	79-132				
n-Propylbenzene	11.1		"	10.0		111	78-133				
o-Xylene	10.4		"	10.0		104	78-130				
p- & m- Xylenes	18.1		"	20.0		90.4	77-133				
p-Isopropyltoluene	10.2		"	10.0		102	81-136				
sec-Butylbenzene	10.6		"	10.0		106	79-137				
Styrene	9.99		"	10.0		99.9	67-132				
tert-Butyl alcohol (TBA)	41.0		"	50.0		82.1	25-162				
tert-Butylbenzene	8.28		"	10.0		82.8	77-138				
Tetrachloroethylene	8.67		"	10.0		86.7	82-131				
Toluene	10.1		"	10.0		101	80-127				
trans-1,2-Dichloroethylene	10.1		"	10.0		101	80-132				
trans-1,3-Dichloropropylene	9.20		"	10.0		92.0	78-131				
Trichloroethylene	9.50		"	10.0		95.0	82-128				
Trichlorofluoromethane	11.4		"	10.0		114	67-139				
Vinyl acetate	11.9		"	10.0		119	21-90	High Bias			
Vinyl Chloride	13.6		"	10.0		136	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.95*		*"*	*10.0*		*99.5*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.8*		*"*	*10.0*		*108*	*79-122*				
LCS Dup (BB21504-BSD1) LCS Dup								Prepared & Analyzed: 02/04/2022			
1,1,1,2-Tetrachloroethane	9.44		ug/L	10.0		94.4	82-126		3.45	30	
1,1,1-Trichloroethane	9.76		"	10.0		97.6	78-136		5.04	30	
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	76-129		2.27	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165		3.13	30	
1,1,2-Trichloroethane	9.62		"	10.0		96.2	82-123		6.55	30	
1,1-Dichloroethane	10.3		"	10.0		103	82-129		5.40	30	
1,1-Dichloroethylene	11.3		"	10.0		113	68-138		2.88	30	
1,1-Dichloropropylene	9.80		"	10.0		98.0	83-133		5.24	30	
1,2,3-Trichlorobenzene	8.21		"	10.0		82.1	76-136		7.98	30	
1,2,3-Trichloropropane	9.80		"	10.0		98.0	77-128		2.69	30	
1,2,4-Trichlorobenzene	8.31		"	10.0		83.1	76-137		4.81	30	
1,2,4-Trimethylbenzene	10.1		"	10.0		101	82-132		0.197	30	
1,2-Dibromo-3-chloropropane	9.59		"	10.0		95.9	45-147		13.5	30	
1,2-Dibromoethane	9.72		"	10.0		97.2	83-124		5.82	30	
1,2-Dichlorobenzene	9.90		"	10.0		99.0	79-123		1.42	30	
1,2-Dichloroethane	10.1		"	10.0		101	73-132		4.54	30	
1,2-Dichloropropane	11.2		"	10.0		112	78-126		4.77	30	
1,3,5-Trimethylbenzene	10.3		"	10.0		103	80-131		0.292	30	
1,3-Dichlorobenzene	9.17		"	10.0		91.7	86-122		0.00	30	
1,3-Dichloropropane	9.98		"	10.0		99.8	81-125		5.88	30	
1,4-Dichlorobenzene	9.47		"	10.0		94.7	85-124		0.848	30	
1,4-Dioxane	232		"	210		110	10-349		2.03	30	
2,2-Dichloropropane	9.28		"	10.0		92.8	56-150		2.62	30	
2-Butanone	10.3		"	10.0		103	49-152		7.06	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21504 - EPA 5030B											
LCS Dup (BB21504-BSD1) LCS Dup								Prepared & Analyzed: 02/04/2022			
2-Chlorotoluene	10.4		ug/L	10.0		104	79-130		0.193	30	
2-Hexanone	11.0		"	10.0		110	51-146		8.08	30	
4-Chlorotoluene	10.5		"	10.0		105	79-128		0.0955	30	
4-Methyl-2-pentanone	11.0		"	10.0		110	57-145		8.86	30	
Acetone	10.9		"	10.0		109	14-150		10.2	30	
Acrolein	5.91		"	10.0		59.1	10-153		11.3	30	
Acrylonitrile	12.4		"	10.0		124	51-150		7.89	30	
Benzene	10.2		"	10.0		102	85-126		4.69	30	
Bromobenzene	10.2		"	10.0		102	78-129		0.0977	30	
Bromochloromethane	10.4		"	10.0		104	77-128		3.13	30	
Bromodichloromethane	9.82		"	10.0		98.2	79-128		4.26	30	
Bromoform	8.71		"	10.0		87.1	78-133		6.03	30	
Bromomethane	4.90		"	10.0		49.0	43-168		3.41	30	
Carbon disulfide	10.8		"	10.0		108	68-146		2.06	30	
Carbon tetrachloride	9.85		"	10.0		98.5	77-141		4.46	30	
Chlorobenzene	10.3		"	10.0		103	88-120		3.85	30	
Chloroethane	11.0		"	10.0		110	65-136		0.0910	30	
Chloroform	9.91		"	10.0		99.1	82-128		3.91	30	
Chloromethane	9.62		"	10.0		96.2	43-155		6.24	30	
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129		4.01	30	
cis-1,3-Dichloropropylene	9.83		"	10.0		98.3	80-131		4.15	30	
Cyclohexane	8.42		"	10.0		84.2	63-149		5.37	30	
Dibromochloromethane	9.09		"	10.0		90.9	80-130		5.89	30	
Dibromomethane	9.77		"	10.0		97.7	72-134		4.71	30	
Dichlorodifluoromethane	15.4		"	10.0		154	44-144	High Bias	5.06	30	
Ethyl Benzene	11.1		"	10.0		111	80-131		4.62	30	
Hexachlorobutadiene	11.0		"	10.0		110	67-146		8.77	30	
Isopropylbenzene	10.8		"	10.0		108	76-140		0.0921	30	
Methyl acetate	9.48		"	10.0		94.8	51-139		5.75	30	
Methyl tert-butyl ether (MTBE)	9.63		"	10.0		96.3	76-135		5.11	30	
Methylcyclohexane	11.3		"	10.0		113	72-143		6.21	30	
Methylene chloride	9.93		"	10.0		99.3	55-137		2.03	30	
n-Butylbenzene	10.8		"	10.0		108	79-132		3.56	30	
n-Propylbenzene	11.1		"	10.0		111	78-133		0.0904	30	
o-Xylene	10.8		"	10.0		108	78-130		3.68	30	
p- & m- Xylenes	18.9		"	20.0		94.4	77-133		4.33	30	
p-Isopropyltoluene	10.3		"	10.0		103	81-136		0.683	30	
sec-Butylbenzene	10.6		"	10.0		106	79-137		0.660	30	
Styrene	10.4		"	10.0		104	67-132		3.64	30	
tert-Butyl alcohol (TBA)	44.8		"	50.0		89.7	25-162		8.87	30	
tert-Butylbenzene	8.27		"	10.0		82.7	77-138		0.121	30	
Tetrachloroethylene	9.12		"	10.0		91.2	82-131		5.06	30	
Toluene	10.6		"	10.0		106	80-127		4.65	30	
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-132		4.55	30	
trans-1,3-Dichloropropylene	9.73		"	10.0		97.3	78-131		5.60	30	
Trichloroethylene	9.99		"	10.0		99.9	82-128		5.03	30	
Trichlorofluoromethane	11.4		"	10.0		114	67-139		0.438	30	
Vinyl acetate	12.5		"	10.0		125	21-90	High Bias	4.43	30	
Vinyl Chloride	12.9		"	10.0		129	58-145		5.21	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21504 - EPA 5030B											
LCS Dup (BB21504-BSD1) LCS Dup									Prepared & Analyzed: 02/04/2022		
Surrogate: SURR: p-Bromofluorobenzene	*10.3*		*ug/L*	*10.0*		*103*	*79-122*				
Batch BB21592 - EPA 5035A											
Blank (BB21592-BLK1) Blank									Prepared & Analyzed: 02/08/2022		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,1-Dichloropropylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
2-Chlorotoluene	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Chlorotoluene	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromobenzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21592 - EPA 5035A											
Blank (BB21592-BLK1) Blank									Prepared & Analyzed: 02/08/2022		
Dibromochloromethane	ND	0.0050	mg/kg wet								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl acetate	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.9*		*ug/L*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.8*		*"*	*50.0*		*99.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*53.9*		*"*	*50.0*		*108*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21592 - EPA 5035A											
LCS (BB21592-BS1) LCS							Prepared & Analyzed: 02/08/2022				
1,1,1,2-Tetrachloroethane	44.0		ug/L	50.0		87.9	75-129				
1,1,1-Trichloroethane	46.8		"	50.0		93.6	71-137				
1,1,2,2-Tetrachloroethane	42.6		"	50.0		85.1	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49.0		"	50.0		98.1	58-146				
1,1,2-Trichloroethane	43.5		"	50.0		87.0	83-123				
1,1-Dichloroethane	47.5		"	50.0		95.0	75-130				
1,1-Dichloroethylene	49.3		"	50.0		98.6	64-137				
1,1-Dichloropropylene	45.9		"	50.0		91.8	77-127				
1,2,3-Trichlorobenzene	40.3		"	50.0		80.6	81-140	Low Bias			
1,2,3-Trichloropropane	40.9		"	50.0		81.9	81-126				
1,2,4-Trichlorobenzene	41.2		"	50.0		82.4	80-141				
1,2,4-Trimethylbenzene	42.9		"	50.0		85.8	84-125				
1,2-Dibromo-3-chloropropane	43.2		"	50.0		86.5	74-142				
1,2-Dibromoethane	43.0		"	50.0		86.0	86-123				
1,2-Dichlorobenzene	44.7		"	50.0		89.3	85-122				
1,2-Dichloroethane	49.5		"	50.0		99.0	71-133				
1,2-Dichloropropane	47.2		"	50.0		94.5	81-122				
1,3,5-Trimethylbenzene	44.1		"	50.0		88.2	82-126				
1,3-Dichlorobenzene	41.2		"	50.0		82.4	84-124	Low Bias			
1,3-Dichloropropane	43.0		"	50.0		86.1	83-123				
1,4-Dichlorobenzene	42.1		"	50.0		84.3	84-124				
1,4-Dioxane	1090		"	1050		104	10-228				
2,2-Dichloropropane	45.5		"	50.0		91.0	67-136				
2-Butanone	44.4		"	50.0		88.7	58-147				
2-Chlorotoluene	48.0		"	50.0		96.0	78-127				
2-Hexanone	47.8		"	50.0		95.7	70-139				
4-Chlorotoluene	45.2		"	50.0		90.4	79-125				
4-Methyl-2-pentanone	37.1		"	50.0		74.2	72-132				
Acetone	39.8		"	50.0		79.6	36-155				
Acrolein	33.0		"	50.0		65.9	10-238				
Acrylonitrile	46.7		"	50.0		93.4	66-141				
Benzene	47.4		"	50.0		94.8	77-127				
Bromobenzene	46.6		"	50.0		93.3	77-129				
Bromochloromethane	50.6		"	50.0		101	74-129				
Bromodichloromethane	45.7		"	50.0		91.4	81-124				
Bromoform	46.8		"	50.0		93.6	80-136				
Bromomethane	77.3		"	50.0		155	32-177				
Carbon disulfide	49.6		"	50.0		99.3	10-136				
Carbon tetrachloride	49.9		"	50.0		99.9	66-143				
Chlorobenzene	47.5		"	50.0		95.0	86-120				
Chloroethane	78.5		"	50.0		157	51-142	High Bias			
Chloroform	47.7		"	50.0		95.3	76-131				
Chloromethane	51.4		"	50.0		103	49-132				
cis-1,2-Dichloroethylene	47.2		"	50.0		94.5	74-132				
cis-1,3-Dichloropropylene	45.6		"	50.0		91.2	81-129				
Cyclohexane	49.2		"	50.0		98.4	70-130				
Dibromochloromethane	44.9		"	50.0		89.7	10-200				
Dibromomethane	44.8		"	50.0		89.6	83-124				
Dichlorodifluoromethane	37.9		"	50.0		75.7	28-158				
Ethyl Benzene	46.6		"	50.0		93.2	84-125				
Hexachlorobutadiene	41.3		"	50.0		82.7	83-133	Low Bias			

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21592 - EPA 5035A											
LCS (BB21592-BS1) LCS								Prepared & Analyzed: 02/08/2022			
Isopropylbenzene	44.4		ug/L	50.0		88.7	81-127				
Methyl acetate	45.7		"	50.0		91.3	41-143				
Methyl tert-butyl ether (MTBE)	44.8		"	50.0		89.6	74-131				
Methylcyclohexane	46.6		"	50.0		93.2	70-130				
Methylene chloride	50.6		"	50.0		101	57-141				
n-Butylbenzene	47.3		"	50.0		94.5	80-130				
n-Propylbenzene	48.7		"	50.0		97.4	74-136				
o-Xylene	47.9		"	50.0		95.7	83-123				
p- & m- Xylenes	98.2		"	100		98.2	82-128				
p-Isopropyltoluene	43.7		"	50.0		87.5	85-125				
sec-Butylbenzene	43.0		"	50.0		86.0	83-125				
Styrene	46.1		"	50.0		92.1	86-126				
tert-Butyl alcohol (TBA)	238		"	250		95.1	70-130				
tert-Butylbenzene	36.9		"	50.0		73.8	80-127	Low Bias			
Tetrachloroethylene	41.7		"	50.0		83.4	80-129				
Toluene	45.7		"	50.0		91.4	85-121				
trans-1,2-Dichloroethylene	49.4		"	50.0		98.9	72-132				
trans-1,3-Dichloropropylene	44.1		"	50.0		88.2	78-132				
Trichloroethylene	43.7		"	50.0		87.4	84-123				
Trichlorofluoromethane	73.5		"	50.0		147	62-140	High Bias			
Vinyl acetate	53.6		"	50.0		107	67-136				
Vinyl Chloride	54.1		"	50.0		108	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.4*		*"*	*50.0*		*98.9*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.0*		*"*	*50.0*		*100*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*46.4*		*"*	*50.0*		*92.8*	*76-130*				
LCS Dup (BB21592-BSD1) LCS Dup								Prepared & Analyzed: 02/08/2022			
1,1,1,2-Tetrachloroethane	43.3		ug/L	50.0		86.7	75-129		1.42	30	
1,1,1-Trichloroethane	47.8		"	50.0		95.7	71-137		2.18	30	
1,1,2,2-Tetrachloroethane	42.4		"	50.0		84.7	79-129		0.471	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48.0		"	50.0		96.1	58-146		2.06	30	
1,1,2-Trichloroethane	42.9		"	50.0		85.8	83-123		1.44	30	
1,1-Dichloroethane	47.8		"	50.0		95.7	75-130		0.692	30	
1,1-Dichloroethylene	49.2		"	50.0		98.4	64-137		0.223	30	
1,1-Dichloropropylene	47.2		"	50.0		94.3	77-127		2.77	30	
1,2,3-Trichlorobenzene	39.9		"	50.0		79.7	81-140	Low Bias	1.12	30	
1,2,3-Trichloropropane	40.8		"	50.0		81.5	81-126		0.465	30	
1,2,4-Trichlorobenzene	40.3		"	50.0		80.6	80-141		2.13	30	
1,2,4-Trimethylbenzene	42.7		"	50.0		85.3	84-125		0.491	30	
1,2-Dibromo-3-chloropropane	41.4		"	50.0		82.8	74-142		4.37	30	
1,2-Dibromoethane	43.0		"	50.0		86.1	86-123		0.0930	30	
1,2-Dichlorobenzene	44.6		"	50.0		89.3	85-122		0.0896	30	
1,2-Dichloroethane	48.8		"	50.0		97.5	71-133		1.55	30	
1,2-Dichloropropane	45.9		"	50.0		91.7	81-122		2.94	30	
1,3,5-Trimethylbenzene	43.5		"	50.0		87.1	82-126		1.30	30	
1,3-Dichlorobenzene	40.8		"	50.0		81.6	84-124	Low Bias	1.05	30	
1,3-Dichloropropane	43.0		"	50.0		86.0	83-123		0.163	30	
1,4-Dichlorobenzene	41.3		"	50.0		82.7	84-124	Low Bias	1.92	30	
1,4-Dioxane	1070		"	1050		101	10-228		2.25	30	
2,2-Dichloropropane	46.5		"	50.0		92.9	67-136		2.07	30	
2-Butanone	42.4		"	50.0		84.9	58-147		4.42	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21592 - EPA 5035A											
LCS Dup (BB21592-BSD1) LCS Dup								Prepared & Analyzed: 02/08/2022			
2-Chlorotoluene	46.6		ug/L	50.0		93.1	78-127		3.05	30	
2-Hexanone	46.2		"	50.0		92.4	70-139		3.49	30	
4-Chlorotoluene	44.6		"	50.0		89.3	79-125		1.25	30	
4-Methyl-2-pentanone	36.0		"	50.0		72.0	72-132		2.95	30	
Acetone	39.0		"	50.0		78.0	36-155		2.00	30	
Acrolein	31.3		"	50.0		62.5	10-238		5.26	30	
Acrylonitrile	47.4		"	50.0		94.9	66-141		1.55	30	
Benzene	47.6		"	50.0		95.2	77-127		0.484	30	
Bromobenzene	45.5		"	50.0		91.0	77-129		2.50	30	
Bromochloromethane	51.2		"	50.0		102	74-129		1.06	30	
Bromodichloromethane	45.7		"	50.0		91.5	81-124		0.0437	30	
Bromoform	46.2		"	50.0		92.4	80-136		1.27	30	
Bromomethane	76.5		"	50.0		153	32-177		1.05	30	
Carbon disulfide	50.1		"	50.0		100	10-136		0.943	30	
Carbon tetrachloride	49.9		"	50.0		99.9	66-143		0.0200	30	
Chlorobenzene	47.2		"	50.0		94.3	86-120		0.739	30	
Chloroethane	78.2		"	50.0		156	51-142	High Bias	0.345	30	
Chloroform	47.9		"	50.0		95.9	76-131		0.565	30	
Chloromethane	52.2		"	50.0		104	49-132		1.47	30	
cis-1,2-Dichloroethylene	48.1		"	50.0		96.3	74-132		1.89	30	
cis-1,3-Dichloropropylene	45.5		"	50.0		90.9	81-129		0.285	30	
Cyclohexane	50.2		"	50.0		100	70-130		2.01	30	
Dibromochloromethane	44.0		"	50.0		88.1	10-200		1.87	30	
Dibromomethane	44.1		"	50.0		88.2	83-124		1.60	30	
Dichlorodifluoromethane	38.4		"	50.0		76.8	28-158		1.42	30	
Ethyl Benzene	46.2		"	50.0		92.4	84-125		0.927	30	
Hexachlorobutadiene	41.2		"	50.0		82.4	83-133	Low Bias	0.364	30	
Isopropylbenzene	43.2		"	50.0		86.5	81-127		2.51	30	
Methyl acetate	48.0		"	50.0		96.1	41-143		5.04	30	
Methyl tert-butyl ether (MTBE)	45.6		"	50.0		91.2	74-131		1.79	30	
Methylcyclohexane	46.0		"	50.0		92.0	70-130		1.32	30	
Methylene chloride	50.2		"	50.0		100	57-141		0.794	30	
n-Butylbenzene	46.7		"	50.0		93.3	80-130		1.28	30	
n-Propylbenzene	48.2		"	50.0		96.5	74-136		0.949	30	
o-Xylene	47.5		"	50.0		95.0	83-123		0.755	30	
p- & m- Xylenes	97.0		"	100		97.0	82-128		1.20	30	
p-Isopropyltoluene	43.6		"	50.0		87.2	85-125		0.298	30	
sec-Butylbenzene	42.4		"	50.0		84.8	83-125		1.31	30	
Styrene	46.3		"	50.0		92.6	86-126		0.498	30	
tert-Butyl alcohol (TBA)	232		"	250		92.8	70-130		2.46	30	
tert-Butylbenzene	36.7		"	50.0		73.3	80-127	Low Bias	0.680	30	
Tetrachloroethylene	41.4		"	50.0		82.9	80-129		0.577	30	
Toluene	45.2		"	50.0		90.4	85-121		1.03	30	
trans-1,2-Dichloroethylene	50.6		"	50.0		101	72-132		2.42	30	
trans-1,3-Dichloropropylene	43.6		"	50.0		87.1	78-132		1.30	30	
Trichloroethylene	44.2		"	50.0		88.5	84-123		1.18	30	
Trichlorofluoromethane	72.1		"	50.0		144	62-140	High Bias	1.90	30	
Vinyl acetate	54.5		"	50.0		109	67-136		1.70	30	
Vinyl Chloride	54.0		"	50.0		108	52-130		0.111	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.8*		*"*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.5*		*"*	*50.0*		*99.1*	*85-120*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21592 - EPA 5035A											
LCS Dup (BB21592-BSD1) LCS Dup									Prepared & Analyzed: 02/08/2022		
Surrogate: SURR: p-Bromofluorobenzene	*45.8*		*ug/L*	*50.0*		*91.7*	*76-130*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21428 - EPA 3546 SVOA											
Blank (BB21428-BLK1) Blank									Prepared: 02/04/2022 Analyzed: 02/08/2022		
1,1-Biphenyl	ND	0.0831	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.166	"								
1,2,4-Trichlorobenzene	ND	0.0831	"								
1,2-Dichlorobenzene	ND	0.0831	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0831	"								
1,3-Dichlorobenzene	ND	0.0831	"								
1,4-Dichlorobenzene	ND	0.0831	"								
2,3,4,6-Tetrachlorophenol	ND	0.166	"								
2,4,5-Trichlorophenol	ND	0.0831	"								
2,4,6-Trichlorophenol	ND	0.0831	"								
2,4-Dichlorophenol	ND	0.0831	"								
2,4-Dimethylphenol	ND	0.0831	"								
2,4-Dinitrophenol	ND	0.166	"								
2,4-Dinitrotoluene	ND	0.0831	"								
2,6-Dinitrotoluene	ND	0.0831	"								
2-Chloronaphthalene	ND	0.0831	"								
2-Chlorophenol	ND	0.0831	"								
2-Methylnaphthalene	ND	0.0831	"								
2-Methylphenol	ND	0.0831	"								
2-Nitroaniline	ND	0.166	"								
2-Nitrophenol	ND	0.0831	"								
3- & 4-Methylphenols	ND	0.0831	"								
3,3-Dichlorobenzidine	ND	0.0831	"								
3-Nitroaniline	ND	0.166	"								
4,6-Dinitro-2-methylphenol	ND	0.166	"								
4-Bromophenyl phenyl ether	ND	0.0831	"								
4-Chloro-3-methylphenol	ND	0.0831	"								
4-Chloroaniline	ND	0.0831	"								
4-Chlorophenyl phenyl ether	ND	0.0831	"								
4-Nitroaniline	ND	0.166	"								
4-Nitrophenol	ND	0.166	"								
Acenaphthene	ND	0.0831	"								
Acenaphthylene	ND	0.0831	"								
Acetophenone	ND	0.0831	"								
Aniline	ND	0.333	"								
Anthracene	ND	0.0831	"								
Atrazine	ND	0.0831	"								
Benzaldehyde	ND	0.0831	"								
Benzidine	ND	0.333	"								
Benzo(a)anthracene	ND	0.0831	"								
Benzo(a)pyrene	ND	0.0831	"								
Benzo(b)fluoranthene	ND	0.0831	"								
Benzo(g,h,i)perylene	ND	0.0831	"								
Benzo(k)fluoranthene	ND	0.0831	"								
Benzoic acid	ND	0.0831	"								
Benzyl alcohol	ND	0.0831	"								
Benzyl butyl phthalate	ND	0.0831	"								
Bis(2-chloroethoxy)methane	ND	0.0831	"								
Bis(2-chloroethyl)ether	ND	0.0831	"								
Bis(2-chloroisopropyl)ether	ND	0.0831	"								
Bis(2-ethylhexyl)phthalate	ND	0.0831	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21428 - EPA 3546 SVOA											
Blank (BB21428-BLK1) Blank									Prepared: 02/04/2022 Analyzed: 02/08/2022		
Caprolactam	ND	0.166	mg/kg wet								
Carbazole	ND	0.0831	"								
Chrysene	ND	0.0831	"								
Dibenzo(a,h)anthracene	ND	0.0831	"								
Dibenzofuran	ND	0.0831	"								
Diethyl phthalate	ND	0.0831	"								
Dimethyl phthalate	ND	0.0831	"								
Di-n-butyl phthalate	ND	0.0831	"								
Di-n-octyl phthalate	ND	0.0831	"								
Fluoranthene	ND	0.0831	"								
Fluorene	ND	0.0831	"								
Hexachlorobenzene	ND	0.0831	"								
Hexachlorobutadiene	ND	0.0831	"								
Hexachlorocyclopentadiene	ND	0.0831	"								
Hexachloroethane	ND	0.0831	"								
Indeno(1,2,3-cd)pyrene	ND	0.0831	"								
Isophorone	ND	0.0831	"								
Naphthalene	ND	0.0831	"								
Nitrobenzene	ND	0.0831	"								
N-Nitrosodimethylamine	ND	0.0831	"								
N-nitroso-di-n-propylamine	ND	0.0831	"								
N-Nitrosodiphenylamine	ND	0.0831	"								
Pentachlorophenol	ND	0.0831	"								
Phenanthrene	ND	0.0831	"								
Phenol	ND	0.0831	"								
Pyrene	ND	0.0831	"								
Pyridine	ND	0.333	"								
Surrogate: SURR: 2-Fluorophenol	*2.24*		"	*1.66*		*135*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.97*		"	*1.66*		*119*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.926*		"	*0.831*		*111*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*1.08*		"	*0.831*		*129*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*2.72*		"	*1.66*		*164*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*1.14*		"	*0.831*		*137*	*24-116*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21428 - EPA 3546 SVOA											
LCS (BB21428-BS1) LCS							Prepared: 02/04/2022 Analyzed: 02/08/2022				
1,1-Biphenyl	0.443	0.0416	mg/kg wet	0.831		53.3	18-111				
1,2,4,5-Tetrachlorobenzene	0.583	0.0830	"	0.831		70.2	21-131				
1,2,4-Trichlorobenzene	0.502	0.0416	"	0.831		60.5	10-140				
1,2-Dichlorobenzene	0.453	0.0416	"	0.831		54.5	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.303	0.0416	"	0.831		36.4	17-137				
1,3-Dichlorobenzene	0.451	0.0416	"	0.831		54.3	33-110				
1,4-Dichlorobenzene	0.457	0.0416	"	0.831		55.0	32-104				
2,3,4,6-Tetrachlorophenol	0.484	0.0830	"	0.831		58.3	30-130				
2,4,5-Trichlorophenol	0.479	0.0416	"	0.831		57.7	27-118				
2,4,6-Trichlorophenol	0.558	0.0416	"	0.831		67.2	31-120				
2,4-Dichlorophenol	0.540	0.0416	"	0.831		65.0	20-127				
2,4-Dimethylphenol	0.458	0.0416	"	0.831		55.2	14-132				
2,4-Dinitrophenol	ND	0.0830	"	0.831			10-171	Low Bias			
2,4-Dinitrotoluene	0.493	0.0416	"	0.831		59.4	34-131				
2,6-Dinitrotoluene	0.495	0.0416	"	0.831		59.6	31-128				
2-Chloronaphthalene	0.459	0.0416	"	0.831		55.3	31-117				
2-Chlorophenol	0.460	0.0416	"	0.831		55.4	33-113				
2-Methylnaphthalene	0.482	0.0416	"	0.831		58.1	12-138				
2-Methylphenol	0.441	0.0416	"	0.831		53.1	10-136				
2-Nitroaniline	0.513	0.0830	"	0.831		61.7	27-132				
2-Nitrophenol	0.449	0.0416	"	0.831		54.1	17-129				
3- & 4-Methylphenols	0.380	0.0416	"	0.831		45.7	29-103				
3,3-Dichlorobenzidine	0.366	0.0416	"	0.831		44.0	22-149				
3-Nitroaniline	0.467	0.0830	"	0.831		56.2	20-133				
4,6-Dinitro-2-methylphenol	0.0425	0.0830	"	0.831		5.12	10-143	Low Bias			
4-Bromophenyl phenyl ether	0.453	0.0416	"	0.831		54.6	29-120				
4-Chloro-3-methylphenol	0.502	0.0416	"	0.831		60.4	24-129				
4-Chloroaniline	0.341	0.0416	"	0.831		41.1	10-132				
4-Chlorophenyl phenyl ether	0.504	0.0416	"	0.831		60.7	27-124				
4-Nitroaniline	0.511	0.0830	"	0.831		61.5	16-128				
4-Nitrophenol	0.347	0.0830	"	0.831		41.7	10-141				
Acenaphthene	0.463	0.0416	"	0.831		55.8	30-121				
Acenaphthylene	0.428	0.0416	"	0.831		51.5	30-115				
Acetophenone	0.444	0.0416	"	0.831		53.4	20-112				
Aniline	0.298	0.166	"	0.831		35.8	10-119				
Anthracene	0.483	0.0416	"	0.831		58.1	34-118				
Atrazine	0.557	0.0416	"	0.831		67.1	26-112				
Benzaldehyde	0.477	0.0416	"	0.831		57.4	21-100				
Benzo(a)anthracene	0.480	0.0416	"	0.831		57.8	32-122				
Benzo(a)pyrene	0.465	0.0416	"	0.831		56.0	29-133				
Benzo(b)fluoranthene	0.493	0.0416	"	0.831		59.4	25-133				
Benzo(g,h,i)perylene	0.511	0.0416	"	0.831		61.5	10-143				
Benzo(k)fluoranthene	0.474	0.0416	"	0.831		57.0	25-128				
Benzoic acid	0.0223	0.0416	"	0.831		2.68	10-140	Low Bias			
Benzyl alcohol	0.412	0.0416	"	0.831		49.6	30-115				
Benzyl butyl phthalate	0.420	0.0416	"	0.831		50.6	26-126				
Bis(2-chloroethoxy)methane	0.398	0.0416	"	0.831		47.9	19-132				
Bis(2-chloroethyl)ether	0.445	0.0416	"	0.831		53.6	19-125				
Bis(2-chloroisopropyl)ether	0.341	0.0416	"	0.831		41.0	20-135				
Bis(2-ethylhexyl)phthalate	0.438	0.0416	"	0.831		52.7	10-155				
Caprolactam	0.555	0.0830	"	0.831		66.8	10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21428 - EPA 3546 SVOA											
LCS (BB21428-BS1) LCS								Prepared: 02/04/2022 Analyzed: 02/08/2022			
Carbazole	0.462	0.0416	mg/kg wet	0.831		55.6	35-123				
Chrysene	0.463	0.0416	"	0.831		55.7	32-123				
Dibenzo(a,h)anthracene	0.537	0.0416	"	0.831		64.6	10-136				
Dibenzofuran	0.479	0.0416	"	0.831		57.7	29-121				
Diethyl phthalate	0.415	0.0416	"	0.831		50.0	34-116				
Dimethyl phthalate	0.442	0.0416	"	0.831		53.2	35-124				
Di-n-butyl phthalate	0.404	0.0416	"	0.831		48.6	31-116				
Di-n-octyl phthalate	0.462	0.0416	"	0.831		55.6	26-136				
Fluoranthene	0.494	0.0416	"	0.831		59.5	33-122				
Fluorene	0.474	0.0416	"	0.831		57.1	29-123				
Hexachlorobenzene	0.353	0.0416	"	0.831		42.5	21-124				
Hexachlorobutadiene	0.513	0.0416	"	0.831		61.8	10-149				
Hexachlorocyclopentadiene	ND	0.0416	"	0.831			10-129	Low Bias			
Hexachloroethane	0.366	0.0416	"	0.831		44.1	28-108				
Indeno(1,2,3-cd)pyrene	0.490	0.0416	"	0.831		59.0	10-135				
Isophorone	0.388	0.0416	"	0.831		46.8	20-132				
Naphthalene	0.459	0.0416	"	0.831		55.3	23-124				
Nitrobenzene	0.394	0.0416	"	0.831		47.4	13-132				
N-Nitrosodimethylamine	0.349	0.0416	"	0.831		42.0	11-129				
N-nitroso-di-n-propylamine	0.327	0.0416	"	0.831		39.4	24-119				
N-Nitrosodiphenylamine	0.473	0.0416	"	0.831		57.0	22-152				
Pentachlorophenol	0.320	0.0416	"	0.831		38.6	10-139				
Phenanthrene	0.446	0.0416	"	0.831		53.7	33-123				
Phenol	0.461	0.0416	"	0.831		55.6	23-115				
Pyrene	0.457	0.0416	"	0.831		55.0	24-130				
Pyridine	0.378	0.166	"	0.831		45.6	10-91				
Surrogate: SURR: 2-Fluorophenol	*0.956*		"	*1.66*		*57.6*	*20-108*				
Surrogate: SURR: Phenol-d5	*0.858*		"	*1.66*		*51.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.421*		"	*0.831*		*50.7*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.482*		"	*0.831*		*58.1*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.26*		"	*1.66*		*75.9*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.482*		"	*0.831*		*58.0*	*24-116*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21428 - EPA 3546 SVOA											
Matrix Spike (BB21428-MS1) Matrix Spike	*Source sample: 22B0147-01 (Matrix Spike)								Prepared: 02/04/2022 Analyzed: 02/11/2022		
1,1-Biphenyl	1.42	0.0861	mg/kg dry	0.861	ND	165	10-130	High Bias			
1,2,4,5-Tetrachlorobenzene	1.55	0.172	"	0.861	ND	180	10-133	High Bias			
1,2,4-Trichlorobenzene	1.29	0.0861	"	0.861	ND	150	10-127	High Bias			
1,2-Dichlorobenzene	1.22	0.0861	"	0.861	ND	142	14-111	High Bias			
1,2-Diphenylhydrazine (as Azobenzene)	1.25	0.0861	"	0.861	ND	146	10-144	High Bias			
1,3-Dichlorobenzene	1.21	0.0861	"	0.861	ND	140	11-111	High Bias			
1,4-Dichlorobenzene	1.23	0.0861	"	0.861	ND	142	10-106	High Bias			
2,3,4,6-Tetrachlorophenol	1.27	0.172	"	0.861	ND	147	30-130	High Bias			
2,4,5-Trichlorophenol	1.55	0.0861	"	0.861	ND	180	10-127	High Bias			
2,4,6-Trichlorophenol	1.50	0.0861	"	0.861	ND	174	10-132	High Bias			
2,4-Dichlorophenol	1.47	0.0861	"	0.861	ND	170	10-128	High Bias			
2,4-Dimethylphenol	1.30	0.0861	"	0.861	ND	151	10-137	High Bias			
2,4-Dinitrophenol	0.263	0.172	"	0.861	ND	30.6	10-171				
2,4-Dinitrotoluene	1.63	0.0861	"	0.861	ND	189	16-135	High Bias			
2,6-Dinitrotoluene	1.66	0.0861	"	0.861	ND	193	18-131	High Bias			
2-Chloronaphthalene	1.36	0.0861	"	0.861	ND	158	10-129	High Bias			
2-Chlorophenol	1.34	0.0861	"	0.861	ND	155	15-116	High Bias			
2-Methylnaphthalene	1.32	0.0861	"	0.861	ND	153	10-147	High Bias			
2-Methylphenol	1.25	0.0861	"	0.861	ND	146	10-136	High Bias			
2-Nitroaniline	1.64	0.172	"	0.861	ND	190	10-137	High Bias			
2-Nitrophenol	1.61	0.0861	"	0.861	ND	187	10-129	High Bias			
3- & 4-Methylphenols	1.09	0.0861	"	0.861	ND	126	10-123	High Bias			
3,3-Dichlorobenzidine	2.39	0.0861	"	0.861	ND	277	10-155	High Bias			
3-Nitroaniline	1.35	0.172	"	0.861	ND	157	12-133	High Bias			
4,6-Dinitro-2-methylphenol	0.688	0.172	"	0.861	ND	79.9	10-155				
4-Bromophenyl phenyl ether	1.54	0.0861	"	0.861	ND	179	14-128	High Bias			
4-Chloro-3-methylphenol	1.28	0.0861	"	0.861	ND	149	10-134	High Bias			
4-Chloroaniline	0.841	0.0861	"	0.861	ND	97.8	10-145				
4-Chlorophenyl phenyl ether	1.31	0.0861	"	0.861	ND	153	14-130	High Bias			
4-Nitroaniline	1.40	0.172	"	0.861	ND	162	10-147	High Bias			
4-Nitrophenol	1.21	0.172	"	0.861	ND	140	10-137	High Bias			
Acenaphthene	1.33	0.0861	"	0.861	ND	155	10-146	High Bias			
Acenaphthylene	1.28	0.0861	"	0.861	ND	149	10-134	High Bias			
Acetophenone	1.19	0.0861	"	0.861	ND	138	10-116	High Bias			
Aniline	0.646	0.345	"	0.861	ND	75.0	10-123				
Anthracene	1.49	0.0861	"	0.861	ND	173	10-142	High Bias			
Atrazine	1.35	0.0861	"	0.861	ND	157	19-115	High Bias			
Benzaldehyde	1.48	0.0861	"	0.861	ND	171	10-125	High Bias			
Benzo(a)anthracene	1.47	0.0861	"	0.861	ND	170	10-158	High Bias			
Benzo(a)pyrene	1.51	0.0861	"	0.861	ND	175	10-180				
Benzo(b)fluoranthene	1.59	0.0861	"	0.861	ND	185	10-200				
Benzo(g,h,i)perylene	1.55	0.0861	"	0.861	ND	180	10-138	High Bias			
Benzo(k)fluoranthene	1.57	0.0861	"	0.861	ND	182	10-197				
Benzoic acid	0.185	0.0861	"	0.861	ND	21.5	10-166				
Benzyl alcohol	1.12	0.0861	"	0.861	ND	130	12-124	High Bias			
Benzyl butyl phthalate	1.39	0.0861	"	0.861	ND	162	10-154	High Bias			
Bis(2-chloroethoxy)methane	1.28	0.0861	"	0.861	ND	149	10-132	High Bias			
Bis(2-chloroethyl)ether	1.34	0.0861	"	0.861	ND	156	10-119	High Bias			
Bis(2-chloroisopropyl)ether	1.14	0.0861	"	0.861	ND	133	10-139				
Bis(2-ethylhexyl)phthalate	1.46	0.0861	"	0.861	ND	169	10-167	High Bias			
Caprolactam	1.55	0.172	"	0.861	ND	180	10-132	High Bias			

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21428 - EPA 3546 SVOA											
Matrix Spike (BB21428-MS1) Matrix Spike	*Source sample: 22B0147-01 (Matrix Spike)							Prepared: 02/04/2022 Analyzed: 02/11/2022			
Carbazole	1.40	0.0861	mg/kg dry	0.861	ND	162	10-167				
Chrysene	1.42	0.0861	"	0.861	ND	165	10-156	High Bias			
Dibenzo(a,h)anthracene	1.66	0.0861	"	0.861	ND	193	10-137	High Bias			
Dibenzofuran	1.33	0.0861	"	0.861	ND	154	10-147	High Bias			
Diethyl phthalate	1.27	0.0861	"	0.861	ND	147	20-120	High Bias			
Dimethyl phthalate	1.31	0.0861	"	0.861	ND	152	18-131	High Bias			
Di-n-butyl phthalate	1.41	0.0861	"	0.861	ND	164	10-137	High Bias			
Di-n-octyl phthalate	1.51	0.0861	"	0.861	ND	175	10-180				
Fluoranthene	1.55	0.0861	"	0.861	0.0702	172	10-160	High Bias			
Fluorene	1.34	0.0861	"	0.861	ND	156	10-157				
Hexachlorobenzene	1.24	0.0861	"	0.861	ND	144	10-137	High Bias			
Hexachlorobutadiene	1.37	0.0861	"	0.861	ND	159	10-132	High Bias			
Hexachlorocyclopentadiene	0.445	0.0861	"	0.861	ND	51.8	10-106				
Hexachloroethane	1.09	0.0861	"	0.861	ND	126	10-110	High Bias			
Indeno(1,2,3-cd)pyrene	1.90	0.0861	"	0.861	ND	220	10-144	High Bias			
Isophorone	1.26	0.0861	"	0.861	ND	146	10-132	High Bias			
Naphthalene	1.33	0.0861	"	0.861	ND	154	10-141	High Bias			
Nitrobenzene	1.38	0.0861	"	0.861	ND	161	10-131	High Bias			
N-Nitrosodimethylamine	1.28	0.0861	"	0.861	ND	149	10-126	High Bias			
N-nitroso-di-n-propylamine	0.935	0.0861	"	0.861	ND	109	10-125				
N-Nitrosodiphenylamine	1.66	0.0861	"	0.861	ND	193	10-177	High Bias			
Pentachlorophenol	1.24	0.0861	"	0.861	ND	144	10-153				
Phenanthrene	1.40	0.0861	"	0.861	ND	163	10-148	High Bias			
Phenol	1.31	0.0861	"	0.861	ND	152	10-126	High Bias			
Pyrene	1.44	0.0861	"	0.861	0.0565	161	10-165				
Pyridine	1.20	0.345	"	0.861	ND	140	10-83	High Bias			
Surrogate: SURR: 2-Fluorophenol	*3.05*		*"*	*1.72*		*177*	*20-108*				
Surrogate: SURR: Phenol-d5	*2.63*		*"*	*1.72*		*153*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*1.56*		*"*	*0.861*		*181*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*1.40*		*"*	*0.861*		*162*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*3.63*		*"*	*1.72*		*211*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*1.49*		*"*	*0.861*		*173*	*24-116*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BB21428 - EPA 3546 SVOA

Matrix Spike Dup (BB21428-M Matrix Spike Dup Source sample: 22B0147-01 (Matrix Spike Dup) Prepared: 02/04/2022 Analyzed: 02/11/2022

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1-Biphenyl	1.60	0.0861	mg/kg dry	0.861	ND	186	10-130	High Bias	11.5	30	
1,2,4,5-Tetrachlorobenzene	1.71	0.172	"	0.861	ND	199	10-133	High Bias	9.71	30	
1,2,4-Trichlorobenzene	1.42	0.0861	"	0.861	ND	165	10-127	High Bias	9.75	30	
1,2-Dichlorobenzene	1.29	0.0861	"	0.861	ND	150	14-111	High Bias	5.81	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.31	0.0861	"	0.861	ND	152	10-144	High Bias	4.35	30	
1,3-Dichlorobenzene	1.32	0.0861	"	0.861	ND	153	11-111	High Bias	8.89	30	
1,4-Dichlorobenzene	1.35	0.0861	"	0.861	ND	157	10-106	High Bias	9.82	30	
2,3,4,6-Tetrachlorophenol	1.50	0.172	"	0.861	ND	174	30-130	High Bias	16.7	30	
2,4,5-Trichlorophenol	1.68	0.0861	"	0.861	ND	195	10-127	High Bias	8.36	30	
2,4,6-Trichlorophenol	1.67	0.0861	"	0.861	ND	194	10-132	High Bias	11.0	30	
2,4-Dichlorophenol	1.57	0.0861	"	0.861	ND	183	10-128	High Bias	6.94	30	
2,4-Dimethylphenol	1.54	0.0861	"	0.861	ND	179	10-137	High Bias	17.4	30	
2,4-Dinitrophenol	0.273	0.172	"	0.861	ND	31.7	10-171		3.60	30	
2,4-Dinitrotoluene	1.84	0.0861	"	0.861	ND	214	16-135	High Bias	12.2	30	
2,6-Dinitrotoluene	1.91	0.0861	"	0.861	ND	222	18-131	High Bias	13.8	30	
2-Chloronaphthalene	1.49	0.0861	"	0.861	ND	174	10-129	High Bias	9.46	30	
2-Chlorophenol	1.46	0.0861	"	0.861	ND	170	15-116	High Bias	9.10	30	
2-Methylnaphthalene	1.47	0.0861	"	0.861	ND	171	10-147	High Bias	11.1	30	
2-Methylphenol	1.39	0.0861	"	0.861	ND	162	10-136	High Bias	10.6	30	
2-Nitroaniline	1.83	0.172	"	0.861	ND	212	10-137	High Bias	10.9	30	
2-Nitrophenol	1.80	0.0861	"	0.861	ND	209	10-129	High Bias	11.5	30	
3- & 4-Methylphenols	1.19	0.0861	"	0.861	ND	138	10-123	High Bias	8.90	30	
3,3-Dichlorobenzidine	2.71	0.0861	"	0.861	ND	315	10-155	High Bias	12.7	30	
3-Nitroaniline	1.43	0.172	"	0.861	ND	167	12-133	High Bias	5.78	30	
4,6-Dinitro-2-methylphenol	0.705	0.172	"	0.861	ND	81.9	10-155		2.47	30	
4-Bromophenyl phenyl ether	1.70	0.0861	"	0.861	ND	198	14-128	High Bias	10.2	30	
4-Chloro-3-methylphenol	1.41	0.0861	"	0.861	ND	164	10-134	High Bias	9.57	30	
4-Chloroaniline	0.899	0.0861	"	0.861	ND	104	10-145		6.65	30	
4-Chlorophenyl phenyl ether	1.48	0.0861	"	0.861	ND	172	14-130	High Bias	12.2	30	
4-Nitroaniline	1.53	0.172	"	0.861	ND	178	10-147	High Bias	9.39	30	
4-Nitrophenol	1.31	0.172	"	0.861	ND	152	10-137	High Bias	8.16	30	
Acenaphthene	1.53	0.0861	"	0.861	ND	178	10-146	High Bias	13.9	30	
Acenaphthylene	1.41	0.0861	"	0.861	ND	164	10-134	High Bias	9.21	30	
Acetophenone	1.33	0.0861	"	0.861	ND	154	10-116	High Bias	10.9	30	
Aniline	0.777	0.345	"	0.861	ND	90.2	10-123		18.4	30	
Anthracene	1.65	0.0861	"	0.861	ND	192	10-142	High Bias	10.1	30	
Atrazine	1.49	0.0861	"	0.861	ND	173	19-115	High Bias	9.94	30	
Benzaldehyde	2.29	0.0861	"	0.861	ND	266	10-125	High Bias	43.3	30	Non-dir.
Benzo(a)anthracene	1.94	0.0861	"	0.861	ND	226	10-158	High Bias	28.0	30	
Benzo(a)pyrene	2.04	0.0861	"	0.861	ND	237	10-180	High Bias	30.0	30	
Benzo(b)fluoranthene	1.95	0.0861	"	0.861	ND	226	10-200	High Bias	20.1	30	
Benzo(g,h,i)perylene	1.91	0.0861	"	0.861	ND	222	10-138	High Bias	20.5	30	
Benzo(k)fluoranthene	1.92	0.0861	"	0.861	ND	223	10-197	High Bias	20.1	30	
Benzoic acid	0.149	0.0861	"	0.861	ND	17.3	10-166		21.9	30	
Benzyl alcohol	1.21	0.0861	"	0.861	ND	140	12-124	High Bias	7.33	30	
Benzyl butyl phthalate	1.54	0.0861	"	0.861	ND	179	10-154	High Bias	10.1	30	
Bis(2-chloroethoxy)methane	1.41	0.0861	"	0.861	ND	164	10-132	High Bias	9.97	30	
Bis(2-chloroethyl)ether	1.38	0.0861	"	0.861	ND	160	10-119	High Bias	2.63	30	
Bis(2-chloroisopropyl)ether	1.19	0.0861	"	0.861	ND	138	10-139		4.07	30	
Bis(2-ethylhexyl)phthalate	1.61	0.0861	"	0.861	ND	187	10-167	High Bias	9.75	30	
Caprolactam	1.77	0.172	"	0.861	ND	206	10-132	High Bias	13.4	30	



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21428 - EPA 3546 SVOA											
Matrix Spike Dup (BB21428-M Matrix Spike Dup	*Source sample: 22B0147-01 (Matrix Spike Dup)								Prepared: 02/04/2022 Analyzed: 02/11/2022		
Carbazole	1.58	0.0861	mg/kg dry	0.861	ND	183	10-167	High Bias	12.2	30	
Chrysene	1.88	0.0861	"	0.861	ND	218	10-156	High Bias	27.7	30	
Dibenzo(a,h)anthracene	1.87	0.0861	"	0.861	ND	218	10-137	High Bias	12.2	30	
Dibenzofuran	1.48	0.0861	"	0.861	ND	172	10-147	High Bias	10.7	30	
Diethyl phthalate	1.40	0.0861	"	0.861	ND	162	20-120	High Bias	9.72	30	
Dimethyl phthalate	1.43	0.0861	"	0.861	ND	167	18-131	High Bias	9.25	30	
Di-n-butyl phthalate	1.55	0.0861	"	0.861	ND	180	10-137	High Bias	9.54	30	
Di-n-octyl phthalate	1.65	0.0861	"	0.861	ND	192	10-180	High Bias	9.18	30	
Fluoranthene	2.57	0.0861	"	0.861	0.0702	290	10-160	High Bias	49.5	30	Non-dir.
Fluorene	1.49	0.0861	"	0.861	ND	173	10-157	High Bias	10.5	30	
Hexachlorobenzene	1.43	0.0861	"	0.861	ND	166	10-137	High Bias	14.7	30	
Hexachlorobutadiene	1.57	0.0861	"	0.861	ND	182	10-132	High Bias	13.3	30	
Hexachlorocyclopentadiene	0.501	0.0861	"	0.861	ND	58.2	10-106		11.6	30	
Hexachloroethane	1.24	0.0861	"	0.861	ND	144	10-110	High Bias	12.8	30	
Indeno(1,2,3-cd)pyrene	2.27	0.0861	"	0.861	ND	264	10-144	High Bias	18.0	30	
Isophorone	1.36	0.0861	"	0.861	ND	158	10-132	High Bias	7.99	30	
Naphthalene	1.48	0.0861	"	0.861	ND	172	10-141	High Bias	10.9	30	
Nitrobenzene	1.51	0.0861	"	0.861	ND	175	10-131	High Bias	8.71	30	
N-Nitrosodimethylamine	1.40	0.0861	"	0.861	ND	162	10-126	High Bias	8.42	30	
N-nitroso-di-n-propylamine	1.05	0.0861	"	0.861	ND	121	10-125		11.1	30	
N-Nitrosodiphenylamine	1.82	0.0861	"	0.861	ND	211	10-177	High Bias	9.14	30	
Pentachlorophenol	1.38	0.0861	"	0.861	ND	160	10-153	High Bias	10.5	30	
Phenanthrene	2.04	0.0861	"	0.861	ND	237	10-148	High Bias	37.2	30	Non-dir.
Phenol	1.44	0.0861	"	0.861	ND	167	10-126	High Bias	9.57	30	
Pyrene	2.18	0.0861	"	0.861	0.0565	247	10-165	High Bias	40.9	30	Non-dir.
Pyridine	1.35	0.345	"	0.861	ND	157	10-83	High Bias	11.8	30	
Surrogate: SURR: 2-Fluorophenol	*3.54*		"	*1.72*		*206*	*20-108*				
Surrogate: SURR: Phenol-d5	*3.02*		"	*1.72*		*175*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*1.76*		"	*0.861*		*204*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*1.63*		"	*0.861*		*189*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*3.99*		"	*1.72*		*232*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*1.65*		"	*0.861*		*191*	*24-116*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22288 - EPA 3546 SVOA											
Blank (BB22288-BLK1) Blank									Prepared: 02/21/2022 Analyzed: 02/22/2022		
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2,4-Trichlorobenzene	ND	0.0416	"								
1,2-Dichlorobenzene	ND	0.0416	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
1,3-Dichlorobenzene	ND	0.0416	"								
1,4-Dichlorobenzene	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22288 - EPA 3546 SVOA											
Blank (BB22288-BLK1) Blank									Prepared: 02/21/2022 Analyzed: 02/22/2022		
Caprolactam	ND	0.0830	mg/kg wet								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
Surrogate: SURR: 2-Fluorophenol	*1.19*		"	*1.66*		*71.9*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.16*		"	*1.66*		*69.7*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.596*		"	*0.831*		*71.8*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.623*		"	*0.831*		*75.0*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.37*		"	*1.66*		*82.3*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.654*		"	*0.831*		*78.8*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BB22288 - EPA 3546 SVOA

LCS (BB22288-BS1) LCS — Prepared: 02/21/2022 Analyzed: 02/22/2022

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1-Biphenyl	0.670	0.0416	mg/kg wet	0.831		80.6	18-111				
1,2,4,5-Tetrachlorobenzene	0.562	0.0830	"	1.66		33.9	21-131				
1,2,4-Trichlorobenzene	0.613	0.0416	"	1.66		36.9	10-140				
1,2-Dichlorobenzene	0.523	0.0416	"	1.66		31.5	34-108	Low Bias			
1,2-Diphenylhydrazine (as Azobenzene)	0.461	0.0416	"	1.66		27.8	17-137				
1,3-Dichlorobenzene	0.507	0.0416	"	1.66		30.5	33-110	Low Bias			
1,4-Dichlorobenzene	0.564	0.0416	"	1.66		34.0	32-104				
2,3,4,6-Tetrachlorophenol	0.553	0.0830	"	1.66		33.3	30-130				
2,4,5-Trichlorophenol	0.613	0.0416	"	1.66		36.9	27-118				
2,4,6-Trichlorophenol	0.678	0.0416	"	1.66		40.8	31-120				
2,4-Dichlorophenol	0.683	0.0416	"	1.66		41.1	20-127				
2,4-Dimethylphenol	0.599	0.0416	"	1.66		36.1	14-132				
2,4-Dinitrophenol	0.191	0.0830	"	1.66		11.5	10-171				
2,4-Dinitrotoluene	0.727	0.0416	"	1.66		43.7	34-131				
2,6-Dinitrotoluene	0.645	0.0416	"	1.66		38.8	31-128				
2-Chloronaphthalene	0.531	0.0416	"	1.66		31.9	31-117				
2-Chlorophenol	0.575	0.0416	"	1.66		34.6	33-113				
2-Methylnaphthalene	0.638	0.0416	"	1.66		38.4	12-138				
2-Methylphenol	0.490	0.0416	"	1.66		29.5	10-136				
2-Nitroaniline	0.672	0.0830	"	1.66		40.4	27-132				
2-Nitrophenol	0.663	0.0416	"	1.66		39.9	17-129				
3- & 4-Methylphenols	0.518	0.0416	"	1.66		31.2	29-103				
3,3-Dichlorobenzidine	0.359	0.0416	"	1.66		21.6	22-149	Low Bias			
3-Nitroaniline	0.574	0.0830	"	1.66		34.6	20-133				
4,6-Dinitro-2-methylphenol	0.465	0.0830	"	1.66		28.0	10-143				
4-Bromophenyl phenyl ether	0.631	0.0416	"	1.66		38.0	29-120				
4-Chloro-3-methylphenol	0.650	0.0416	"	1.66		39.1	24-129				
4-Chloroaniline	0.461	0.0416	"	1.66		27.8	10-132				
4-Chlorophenyl phenyl ether	0.612	0.0416	"	1.66		36.8	27-124				
4-Nitroaniline	0.565	0.0830	"	1.66		34.0	16-128				
4-Nitrophenol	0.525	0.0830	"	1.66		31.6	10-141				
Acenaphthene	0.624	0.0416	"	1.66		37.6	30-121				
Acenaphthylene	0.571	0.0416	"	1.66		34.4	30-115				
Acetophenone	0.605	0.0416	"	0.831		72.8	20-112				
Aniline	0.348	0.166	"	1.66		20.9	10-119				
Anthracene	0.568	0.0416	"	1.66		34.2	34-118				
Atrazine	0.610	0.0416	"	0.831		73.5	26-112				
Benzaldehyde	0.552	0.0416	"	0.831		66.4	21-100				
Benzo(a)anthracene	0.583	0.0416	"	1.66		35.1	32-122				
Benzo(a)pyrene	0.550	0.0416	"	1.66		33.1	29-133				
Benzo(b)fluoranthene	0.576	0.0416	"	1.66		34.7	25-133				
Benzo(g,h,i)perylene	0.545	0.0416	"	1.66		32.8	10-143				
Benzo(k)fluoranthene	0.581	0.0416	"	1.66		35.0	25-128				
Benzoic acid	0.169	0.0416	"	0.831		20.3	10-140				
Benzyl alcohol	0.579	0.0416	"	1.66		34.8	30-115				
Benzyl butyl phthalate	0.600	0.0416	"	1.66		36.1	26-126				
Bis(2-chloroethoxy)methane	0.541	0.0416	"	1.66		32.5	19-132				
Bis(2-chloroethyl)ether	0.497	0.0416	"	1.66		29.9	19-125				
Bis(2-chloroisopropyl)ether	0.432	0.0416	"	1.66		26.0	20-135				
Bis(2-ethylhexyl)phthalate	0.521	0.0416	"	1.66		31.3	10-155				
Caprolactam	0.605	0.0830	"	0.831		72.8	10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22288 - EPA 3546 SVOA											
LCS (BB22288-BS1) LCS								Prepared: 02/21/2022 Analyzed: 02/22/2022			
Carbazole	0.572	0.0416	mg/kg wet	1.66		34.5	35-123	Low Bias			
Chrysene	0.601	0.0416	"	1.66		36.2	32-123				
Dibenzo(a,h)anthracene	0.610	0.0416	"	1.66		36.7	10-136				
Dibenzofuran	0.595	0.0416	"	1.66		35.8	29-121				
Diethyl phthalate	0.591	0.0416	"	1.66		35.6	34-116				
Dimethyl phthalate	0.556	0.0416	"	1.66		33.5	35-124	Low Bias			
Di-n-butyl phthalate	0.546	0.0416	"	1.66		32.9	31-116				
Di-n-octyl phthalate	0.549	0.0416	"	1.66		33.0	26-136				
Fluoranthene	0.555	0.0416	"	1.66		33.4	33-122				
Fluorene	0.618	0.0416	"	1.66		37.2	29-123				
Hexachlorobenzene	0.562	0.0416	"	1.66		33.8	21-124				
Hexachlorobutadiene	0.712	0.0416	"	1.66		42.9	10-149				
Hexachlorocyclopentadiene	0.252	0.0416	"	1.66		15.2	10-129				
Hexachloroethane	0.505	0.0416	"	1.66		30.4	28-108				
Indeno(1,2,3-cd)pyrene	0.562	0.0416	"	1.66		33.8	10-135				
Isophorone	0.558	0.0416	"	1.66		33.6	20-132				
Naphthalene	0.575	0.0416	"	1.66		34.6	23-124				
Nitrobenzene	0.595	0.0416	"	1.66		35.8	13-132				
N-Nitrosodimethylamine	0.466	0.0416	"	1.66		28.1	11-129				
N-nitroso-di-n-propylamine	0.490	0.0416	"	1.66		29.5	24-119				
N-Nitrosodiphenylamine	0.642	0.0416	"	1.66		38.6	22-152				
Pentachlorophenol	0.263	0.0416	"	1.66		15.8	10-139				
Phenanthrene	0.575	0.0416	"	1.66		34.6	33-123				
Phenol	0.626	0.0416	"	1.66		37.7	23-115				
Pyrene	0.628	0.0416	"	1.66		37.8	24-130				
Pyridine	0.548	0.166	"	1.66		33.0	10-91				
Surrogate: SURR: 2-Fluorophenol	*1.16*		"	*1.66*		*69.7*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.15*		"	*1.66*		*69.2*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.657*		"	*0.831*		*79.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.575*		"	*0.831*		*69.2*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.20*		"	*1.66*		*72.4*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.650*		"	*0.831*		*78.2*	*24-116*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22288 - EPA 3546 SVOA											
Matrix Spike (BB22288-MS1) Matrix Spike	*Source sample: 22B0874-04 (Matrix Spike)							Prepared: 02/21/2022 Analyzed: 02/22/2022			
1,1-Biphenyl	0.610	0.0885	mg/kg dry	0.884	ND	69.0	10-130				
1,2,4,5-Tetrachlorobenzene	0.581	0.177	"	1.77	ND	32.8	10-133				
1,2,4-Trichlorobenzene	0.562	0.0885	"	1.77	ND	31.8	10-127				
1,2-Dichlorobenzene	0.538	0.0885	"	1.77	ND	30.4	14-111				
1,2-Diphenylhydrazine (as Azobenzene)	0.482	0.0885	"	1.77	ND	27.3	10-144				
1,3-Dichlorobenzene	0.546	0.0885	"	1.77	ND	30.9	11-111				
1,4-Dichlorobenzene	0.530	0.0885	"	1.77	ND	30.0	10-106				
2,3,4,6-Tetrachlorophenol	0.693	0.177	"	1.77	ND	39.2	30-130				
2,4,5-Trichlorophenol	0.713	0.0885	"	1.77	ND	40.3	10-127				
2,4,6-Trichlorophenol	0.641	0.0885	"	1.77	ND	36.2	10-132				
2,4-Dichlorophenol	0.593	0.0885	"	1.77	ND	33.5	10-128				
2,4-Dimethylphenol	0.576	0.0885	"	1.77	ND	32.6	10-137				
2,4-Dinitrophenol	ND	0.177	"	1.77	ND		10-171	Low Bias			
2,4-Dinitrotoluene	0.665	0.0885	"	1.77	ND	37.6	16-135				
2,6-Dinitrotoluene	0.665	0.0885	"	1.77	ND	37.6	18-131				
2-Chloronaphthalene	0.576	0.0885	"	1.77	ND	32.6	10-129				
2-Chlorophenol	0.547	0.0885	"	1.77	ND	31.0	15-116				
2-Methylnaphthalene	0.581	0.0885	"	1.77	ND	32.9	10-147				
2-Methylphenol	0.512	0.0885	"	1.77	ND	29.0	10-136				
2-Nitroaniline	0.692	0.177	"	1.77	ND	39.1	10-137				
2-Nitrophenol	0.598	0.0885	"	1.77	ND	33.8	10-129				
3- & 4-Methylphenols	0.448	0.0885	"	1.77	ND	25.3	10-123				
3,3-Dichlorobenzidine	0.745	0.0885	"	1.77	ND	42.1	10-155				
3-Nitroaniline	0.721	0.177	"	1.77	ND	40.8	12-133				
4,6-Dinitro-2-methylphenol	ND	0.177	"	1.77	ND		10-155	Low Bias			
4-Bromophenyl phenyl ether	0.578	0.0885	"	1.77	ND	32.7	14-128				
4-Chloro-3-methylphenol	0.603	0.0885	"	1.77	ND	34.1	10-134				
4-Chloroaniline	0.441	0.0885	"	1.77	ND	24.9	10-145				
4-Chlorophenyl phenyl ether	0.562	0.0885	"	1.77	ND	31.8	14-130				
4-Nitroaniline	0.690	0.177	"	1.77	ND	39.0	10-147				
4-Nitrophenol	0.489	0.177	"	1.77	ND	27.7	10-137				
Acenaphthene	0.577	0.0885	"	1.77	ND	32.6	10-146				
Acenaphthylene	0.566	0.0885	"	1.77	ND	32.0	10-134				
Acetophenone	0.578	0.0885	"	0.884	ND	65.4	10-116				
Aniline	0.474	0.354	"	1.77	ND	26.8	10-123				
Anthracene	0.622	0.0885	"	1.77	ND	35.2	10-142				
Atrazine	0.657	0.0885	"	0.884	ND	74.3	19-115				
Benzaldehyde	0.561	0.0885	"	0.884	ND	63.4	10-125				
Benzo(a)anthracene	0.590	0.0885	"	1.77	ND	33.4	10-158				
Benzo(a)pyrene	0.651	0.0885	"	1.77	ND	36.8	10-180				
Benzo(b)fluoranthene	0.666	0.0885	"	1.77	ND	37.7	10-200				
Benzo(g,h,i)perylene	0.572	0.0885	"	1.77	ND	32.4	10-138				
Benzo(k)fluoranthene	0.686	0.0885	"	1.77	ND	38.8	10-197				
Benzoic acid	0.427	0.0885	"	0.884	ND	48.3	10-166				
Benzyl alcohol	0.475	0.0885	"	1.77	ND	26.9	12-124				
Benzyl butyl phthalate	0.536	0.0885	"	1.77	ND	30.3	10-154				
Bis(2-chloroethoxy)methane	0.533	0.0885	"	1.77	ND	30.2	10-132				
Bis(2-chloroethyl)ether	0.487	0.0885	"	1.77	ND	27.6	10-119				
Bis(2-chloroisopropyl)ether	0.373	0.0885	"	1.77	ND	21.1	10-139				
Bis(2-ethylhexyl)phthalate	0.598	0.0885	"	1.77	ND	33.8	10-167				
Caprolactam	0.651	0.177	"	0.884	ND	73.7	10-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22288 - EPA 3546 SVOA											
Matrix Spike (BB22288-MS1) Matrix Spike	*Source sample: 22B0874-04 (Matrix Spike)							Prepared: 02/21/2022 Analyzed: 02/22/2022			
Carbazole	0.616	0.0885	mg/kg dry	1.77	ND	34.8	10-167				
Chrysene	0.579	0.0885	"	1.77	ND	32.7	10-156				
Dibenzo(a,h)anthracene	0.626	0.0885	"	1.77	ND	35.4	10-137				
Dibenzofuran	0.577	0.0885	"	1.77	ND	32.6	10-147				
Diethyl phthalate	0.537	0.0885	"	1.77	ND	30.4	20-120				
Dimethyl phthalate	0.560	0.0885	"	1.77	ND	31.7	18-131				
Di-n-butyl phthalate	0.570	0.0885	"	1.77	ND	32.2	10-137				
Di-n-octyl phthalate	0.678	0.0885	"	1.77	ND	38.4	10-180				
Fluoranthene	0.582	0.0885	"	1.77	ND	32.9	10-160				
Fluorene	0.581	0.0885	"	1.77	ND	32.9	10-157				
Hexachlorobenzene	0.540	0.0885	"	1.77	ND	30.6	10-137				
Hexachlorobutadiene	0.593	0.0885	"	1.77	ND	33.5	10-132				
Hexachlorocyclopentadiene	0.161	0.0885	"	1.77	ND	9.08	10-106	Low Bias			
Hexachloroethane	0.491	0.0885	"	1.77	ND	27.8	10-110				
Indeno(1,2,3-cd)pyrene	0.710	0.0885	"	1.77	ND	40.2	10-144				
Isophorone	0.504	0.0885	"	1.77	ND	28.5	10-132				
Naphthalene	0.580	0.0885	"	1.77	ND	32.8	10-141				
Nitrobenzene	0.513	0.0885	"	1.77	ND	29.0	10-131				
N-Nitrosodimethylamine	0.448	0.0885	"	1.77	ND	25.3	10-126				
N-nitroso-di-n-propylamine	0.436	0.0885	"	1.77	ND	24.6	10-125				
N-Nitrosodiphenylamine	0.664	0.0885	"	1.77	ND	37.6	10-177				
Pentachlorophenol	0.508	0.0885	"	1.77	ND	28.7	10-153				
Phenanthrene	0.603	0.0885	"	1.77	ND	34.1	10-148				
Phenol	0.523	0.0885	"	1.77	ND	29.6	10-126				
Pyrene	0.769	0.0885	"	1.77	ND	43.5	10-165				
Pyridine	0.468	0.354	"	1.77	ND	26.5	10-83				
Surrogate: SURR: 2-Fluorophenol	*1.14*		*"*	*1.77*		*64.2*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.06*		*"*	*1.77*		*60.2*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.555*		*"*	*0.884*		*62.8*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.611*		*"*	*0.884*		*69.1*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.68*		*"*	*1.77*		*94.8*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.811*		*"*	*0.884*		*91.8*	*24-116*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BB22288 - EPA 3546 SVOA

Matrix Spike Dup (BB22288-M Matrix Spike Dup Source sample: 22B0874-04 (Matrix Spike Dup) Prepared: 02/21/2022 Analyzed: 02/22/2022

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1-Biphenyl	0.268	0.0885	mg/kg dry	0.884	ND	30.3	10-130		77.8	30	Non-dir.
1,2,4,5-Tetrachlorobenzene	0.256	0.177	"	1.77	ND	14.5	10-133		77.6	30	Non-dir.
1,2,4-Trichlorobenzene	0.263	0.0885	"	1.77	ND	14.9	10-127		72.5	30	Non-dir.
1,2-Dichlorobenzene	0.236	0.0885	"	1.77	ND	13.3	14-111	Low Bias	78.2	30	Non-dir.
1,2-Diphenylhydrazine (as Azobenzene)	0.231	0.0885	"	1.77	ND	13.0	10-144		70.6	30	Non-dir.
1,3-Dichlorobenzene	0.245	0.0885	"	1.77	ND	13.8	11-111		76.2	30	Non-dir.
1,4-Dichlorobenzene	0.248	0.0885	"	1.77	ND	14.0	10-106		72.4	30	Non-dir.
2,3,4,6-Tetrachlorophenol	0.299	0.177	"	1.77	ND	16.9	30-130	Low Bias	79.4	30	Non-dir.
2,4,5-Trichlorophenol	0.322	0.0885	"	1.77	ND	18.2	10-127		75.6	30	Non-dir.
2,4,6-Trichlorophenol	0.285	0.0885	"	1.77	ND	16.1	10-132		76.9	30	Non-dir.
2,4-Dichlorophenol	0.265	0.0885	"	1.77	ND	15.0	10-128		76.3	30	Non-dir.
2,4-Dimethylphenol	0.258	0.0885	"	1.77	ND	14.6	10-137		76.3	30	Non-dir.
2,4-Dinitrophenol	ND	0.177	"	1.77	ND		10-171	Low Bias		30	
2,4-Dinitrotoluene	0.281	0.0885	"	1.77	ND	15.9	16-135	Low Bias	81.3	30	Non-dir.
2,6-Dinitrotoluene	0.306	0.0885	"	1.77	ND	17.3	18-131	Low Bias	73.9	30	Non-dir.
2-Chloronaphthalene	0.257	0.0885	"	1.77	ND	14.5	10-129		76.6	30	Non-dir.
2-Chlorophenol	0.239	0.0885	"	1.77	ND	13.5	15-116	Low Bias	78.4	30	Non-dir.
2-Methylnaphthalene	0.258	0.0885	"	1.77	ND	14.6	10-147		77.0	30	Non-dir.
2-Methylphenol	0.235	0.0885	"	1.77	ND	13.3	10-136		74.2	30	Non-dir.
2-Nitroaniline	0.301	0.177	"	1.77	ND	17.0	10-137		78.6	30	Non-dir.
2-Nitrophenol	0.244	0.0885	"	1.77	ND	13.8	10-129		84.1	30	Non-dir.
3- & 4-Methylphenols	0.206	0.0885	"	1.77	ND	11.6	10-123		74.0	30	Non-dir.
3,3-Dichlorobenzidine	0.305	0.0885	"	1.77	ND	17.2	10-155		83.8	30	Non-dir.
3-Nitroaniline	0.314	0.177	"	1.77	ND	17.8	12-133		78.6	30	Non-dir.
4,6-Dinitro-2-methylphenol	ND	0.177	"	1.77	ND		10-155	Low Bias		30	
4-Bromophenyl phenyl ether	0.267	0.0885	"	1.77	ND	15.1	14-128		73.5	30	Non-dir.
4-Chloro-3-methylphenol	0.269	0.0885	"	1.77	ND	15.2	10-134		76.7	30	Non-dir.
4-Chloroaniline	0.194	0.0885	"	1.77	ND	11.0	10-145		77.8	30	Non-dir.
4-Chlorophenyl phenyl ether	0.252	0.0885	"	1.77	ND	14.3	14-130		75.9	30	Non-dir.
4-Nitroaniline	0.284	0.177	"	1.77	ND	16.1	10-147		83.2	30	Non-dir.
4-Nitrophenol	0.236	0.177	"	1.77	ND	13.3	10-137		70.0	30	Non-dir.
Acenaphthene	0.240	0.0885	"	1.77	ND	13.6	10-146		82.4	30	Non-dir.
Acenaphthylene	0.250	0.0885	"	1.77	ND	14.2	10-134		77.4	30	Non-dir.
Acetophenone	0.247	0.0885	"	0.884	ND	27.9	10-116		80.3	30	Non-dir.
Aniline	0.194	0.354	"	1.77	ND	11.0	10-123		83.6	30	Non-dir.
Anthracene	0.272	0.0885	"	1.77	ND	15.4	10-142		78.5	30	Non-dir.
Atrazine	0.301	0.0885	"	0.884	ND	34.1	19-115		74.2	30	Non-dir.
Benzaldehyde	0.256	0.0885	"	0.884	ND	29.0	10-125		74.6	30	Non-dir.
Benzo(a)anthracene	0.268	0.0885	"	1.77	ND	15.2	10-158		75.0	30	Non-dir.
Benzo(a)pyrene	0.323	0.0885	"	1.77	ND	18.3	10-180		67.2	30	Non-dir.
Benzo(b)fluoranthene	0.323	0.0885	"	1.77	ND	18.3	10-200		69.3	30	Non-dir.
Benzo(g,h,i)perylene	0.274	0.0885	"	1.77	ND	15.5	10-138		70.6	30	Non-dir.
Benzo(k)fluoranthene	0.337	0.0885	"	1.77	ND	19.0	10-197		68.3	30	Non-dir.
Benzoic acid	0.135	0.0885	"	0.884	ND	15.3	10-166		104	30	Non-dir.
Benzyl alcohol	0.233	0.0885	"	1.77	ND	13.2	12-124		68.3	30	Non-dir.
Benzyl butyl phthalate	0.236	0.0885	"	1.77	ND	13.3	10-154		77.9	30	Non-dir.
Bis(2-chloroethoxy)methane	0.227	0.0885	"	1.77	ND	12.8	10-132		80.6	30	Non-dir.
Bis(2-chloroethyl)ether	0.211	0.0885	"	1.77	ND	12.0	10-119		78.9	30	Non-dir.
Bis(2-chloroisopropyl)ether	0.164	0.0885	"	1.77	ND	9.28	10-139	Low Bias	77.7	30	Non-dir.
Bis(2-ethylhexyl)phthalate	0.272	0.0885	"	1.77	ND	15.4	10-167		75.0	30	Non-dir.
Caprolactam	0.294	0.177	"	0.884	ND	33.3	10-132		75.5	30	Non-dir.



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22288 - EPA 3546 SVOA											
Matrix Spike Dup (BB22288-M Matrix Spike Dup	*Source sample: 22B0874-04 (Matrix Spike Dup)								Prepared: 02/21/2022 Analyzed: 02/22/2022		
Carbazole	0.277	0.0885	mg/kg dry	1.77	ND	15.7	10-167		75.9	30	Non-dir.
Chrysene	0.257	0.0885	"	1.77	ND	14.5	10-156		77.1	30	Non-dir.
Dibenzo(a,h)anthracene	0.306	0.0885	"	1.77	ND	17.3	10-137		68.8	30	Non-dir.
Dibenzofuran	0.253	0.0885	"	1.77	ND	14.3	10-147		78.0	30	Non-dir.
Diethyl phthalate	0.243	0.0885	"	1.77	ND	13.7	20-120	Low Bias	75.6	30	Non-dir.
Dimethyl phthalate	0.245	0.0885	"	1.77	ND	13.9	18-131	Low Bias	78.1	30	Non-dir.
Di-n-butyl phthalate	0.256	0.0885	"	1.77	ND	14.5	10-137		76.0	30	Non-dir.
Di-n-octyl phthalate	0.294	0.0885	"	1.77	ND	16.6	10-180		79.0	30	Non-dir.
Fluoranthene	0.176	0.0885	"	1.77	ND	9.96	10-160	Low Bias	107	30	Non-dir.
Fluorene	0.264	0.0885	"	1.77	ND	15.0	10-157		74.9	30	Non-dir.
Hexachlorobenzene	0.267	0.0885	"	1.77	ND	15.1	10-137		67.8	30	Non-dir.
Hexachlorobutadiene	0.228	0.0885	"	1.77	ND	12.9	10-132		88.7	30	Non-dir.
Hexachlorocyclopentadiene	0.0523	0.0885	"	1.77	ND	2.96	10-106	Low Bias	102	30	Non-dir.
Hexachloroethane	0.191	0.0885	"	1.77	ND	10.8	10-110		88.0	30	Non-dir.
Indeno(1,2,3-cd)pyrene	0.335	0.0885	"	1.77	ND	18.9	10-144		71.9	30	Non-dir.
Isophorone	0.224	0.0885	"	1.77	ND	12.7	10-132		76.9	30	Non-dir.
Naphthalene	0.257	0.0885	"	1.77	ND	14.5	10-141		77.3	30	Non-dir.
Nitrobenzene	0.238	0.0885	"	1.77	ND	13.4	10-131		73.3	30	Non-dir.
N-Nitrosodimethylamine	0.185	0.0885	"	1.77	ND	10.5	10-126		82.9	30	Non-dir.
N-nitroso-di-n-propylamine	0.180	0.0885	"	1.77	ND	10.2	10-125		83.2	30	Non-dir.
N-Nitrosodiphenylamine	0.315	0.0885	"	1.77	ND	17.8	10-177		71.4	30	Non-dir.
Pentachlorophenol	0.190	0.0885	"	1.77	ND	10.7	10-153		91.3	30	Non-dir.
Phenanthrene	0.262	0.0885	"	1.77	ND	14.8	10-148		78.9	30	Non-dir.
Phenol	0.219	0.0885	"	1.77	ND	12.4	10-126		81.9	30	Non-dir.
Pyrene	0.238	0.0885	"	1.77	ND	13.4	10-165		106	30	Non-dir.
Pyridine	0.211	0.354	"	1.77	ND	12.0	10-83		75.5	30	Non-dir.
Surrogate: SURR: 2-Fluorophenol	*0.504*		*"*	*1.77*		*28.5*	*20-108*				
Surrogate: SURR: Phenol-d5	*0.446*		*"*	*1.77*		*25.2*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.251*		*"*	*0.884*		*28.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.264*		*"*	*0.884*		*29.9*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.752*		*"*	*1.77*		*42.6*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.257*		*"*	*0.884*		*29.1*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21457 - EPA 3550C											
Blank (BB21457-BLK1) Blank								Prepared: 02/05/2022 Analyzed: 02/08/2022			
1,4-Dioxane	ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8	*208*		*"*	*495*		*42.0*	*39-127.5*				
LCS (BB21457-BS1) LCS								Prepared: 02/05/2022 Analyzed: 02/08/2022			
1,4-Dioxane	589	19.8	ug/kg	495		119	40-130				
Surrogate: 1,4-Dioxane-d8	*208*		*"*	*495*		*42.0*	*39-127.5*				
Matrix Spike (BB21457-MS1) Matrix Spike *Source sample: 22B0106-09 (Matrix Spike)								Prepared: 02/05/2022 Analyzed: 02/11/2022			
1,4-Dioxane	549	19.8	ug/kg	495	ND	111	40-130				
Surrogate: 1,4-Dioxane-d8	*277*		*"*	*495*		*56.0*	*40-130*				
Matrix Spike (BB21457-MS2) Matrix Spike *Source sample: 22B0118-01 (Matrix Spike)								Prepared: 02/05/2022 Analyzed: 02/11/2022			
1,4-Dioxane	537	19.8	ug/kg	495	ND	108	40-130				
Surrogate: 1,4-Dioxane-d8	*356*		*"*	*495*		*72.0*	*40-130*				
Matrix Spike Dup (BB21457-M Matrix Spike Dup *Source sample: 22B0106-09 (Matrix Spike Dup)								Prepared: 02/05/2022 Analyzed: 02/11/2022			
1,4-Dioxane	495	19.8	ug/kg	495	ND	100	40-130		10.2	30	
Surrogate: 1,4-Dioxane-d8	*297*		*"*	*495*		*60.0*	*40-130*				
Matrix Spike Dup (BB21457-M Matrix Spike Dup *Source sample: 22B0118-01 (Matrix Spike Dup)								Prepared: 02/05/2022 Analyzed: 02/11/2022			
1,4-Dioxane	513	19.8	ug/kg	495	ND	104	40-130		4.53	30	
Surrogate: 1,4-Dioxane-d8	*277*		*"*	*495*		*56.0*	*40-130*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BB21444 - SPE PFAS Extraction-Soil-EPA 537m

Blank (BB21444-BLK1) Blank — Prepared: 02/04/2022 Analyzed: 02/08/2022

Perfluorobutanesulfonic acid (PFBS)	ND	0.232	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.232	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.232	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.232	"								
Perfluorooctanoic acid (PFOA)	ND	0.232	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.232	"								
Perfluorononanoic acid (PFNA)	ND	0.232	"								
Perfluorodecanoic acid (PFDA)	ND	0.232	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.232	"								
Perfluorododecanoic acid (PFDoA)	ND	0.232	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.232	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.232	"								
N-MeFOSAA	ND	0.232	"								
N-EtFOSAA	ND	0.232	"								
Perfluoropentanoic acid (PFPeA)	ND	0.232	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.232	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.232	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.232	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.232	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.232	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.232	"								
Surrogate: M3PFBS	*4.18*		"	*4.30*		*97.1*	*25-150*				
Surrogate: M5PFHxA	*4.91*		"	*4.63*		*106*	*25-150*				
Surrogate: M4PFHpA	*4.46*		"	*4.63*		*96.2*	*25-150*				
Surrogate: M3PFHxS	*4.40*		"	*4.38*		*100*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.45*		"	*4.63*		*96.2*	*25-150*				
Surrogate: M6PFDA	*4.43*		"	*4.63*		*95.6*	*25-150*				
Surrogate: M7PFUdA	*4.82*		"	*4.63*		*104*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*4.06*		"	*4.63*		*87.8*	*25-150*				
Surrogate: M2PFTeDA	*2.64*		"	*4.63*		*56.9*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.56*		"	*4.63*		*98.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*4.15*		"	*4.43*		*93.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.53*		"	*4.63*		*97.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.76*		"	*4.63*		*81.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.70*		"	*4.63*		*101*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.95*		"	*4.63*		*85.2*	*25-150*				
Surrogate: M2-6:2 FTS	*4.67*		"	*4.40*		*106*	*25-200*				
Surrogate: M2-8:2 FTS	*4.06*		"	*4.44*		*91.4*	*25-200*				
Surrogate: M9PFNA	*5.14*		"	*4.63*		*111*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21444 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BB21444-BS1) LCS								Prepared: 02/04/2022 Analyzed: 02/08/2022			
Perfluorobutanesulfonic acid (PFBS)	4.03	0.242	ug/kg wet	4.29		94.0	50-130				
Perfluorohexanoic acid (PFHxA)	4.38	0.242	"	4.85		90.4	50-130				
Perfluoroheptanoic acid (PFHpA)	4.59	0.242	"	4.85		94.8	50-130				
Perfluorohexanesulfonic acid (PFHxS)	4.29	0.242	"	4.41		97.3	50-130				
Perfluorooctanoic acid (PFOA)	3.84	0.242	"	4.85		79.4	50-130				
Perfluorooctanesulfonic acid (PFOS)	5.47	0.242	"	4.48		122	50-130				
Perfluorononanoic acid (PFNA)	3.20	0.242	"	4.85		66.0	50-130				
Perfluorodecanoic acid (PFDA)	4.51	0.242	"	4.85		93.1	50-130				
Perfluoroundecanoic acid (PFUnA)	4.97	0.242	"	4.85		103	50-130				
Perfluorododecanoic acid (PFDoA)	4.37	0.242	"	4.85		90.2	50-130				
Perfluorotridecanoic acid (PFTrDA)	3.79	0.242	"	4.85		78.2	50-130				
Perfluorotetradecanoic acid (PFTA)	4.69	0.242	"	4.85		96.7	50-130				
N-MeFOSAA	4.25	0.242	"	4.85		87.7	50-130				
N-EtFOSAA	5.96	0.242	"	4.85		123	50-130				
Perfluoropentanoic acid (PFPeA)	4.93	0.242	"	4.85		102	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	4.41	0.242	"	4.85		91.0	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.60	0.242	"	4.63		99.5	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	3.50	0.242	"	4.68		74.8	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	2.89	0.242	"	4.60		62.8	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	4.44	0.242	"	4.65		95.4	50-200				
Perfluoro-n-butanoic acid (PFBA)	4.39	0.242	"	4.85		90.6	50-130				
Surrogate: M3PFBS	*4.04*		*"*	*4.50*		*89.7*	*25-150*				
Surrogate: M5PFHxA	*4.53*		*"*	*4.85*		*93.4*	*25-150*				
Surrogate: M4PFHpA	*4.21*		*"*	*4.85*		*86.8*	*25-150*				
Surrogate: M3PFHxS	*4.28*		*"*	*4.58*		*93.4*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.82*		*"*	*4.85*		*99.5*	*25-150*				
Surrogate: M6PFDA	*4.33*		*"*	*4.85*		*89.4*	*25-150*				
Surrogate: M7PFUdA	*3.86*		*"*	*4.85*		*79.7*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.67*		*"*	*4.85*		*75.7*	*25-150*				
Surrogate: M2PFTeDA	*2.43*		*"*	*4.85*		*50.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.60*		*"*	*4.85*		*94.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.96*		*"*	*4.64*		*85.4*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.14*		*"*	*4.85*		*85.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.15*		*"*	*4.85*		*65.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.30*		*"*	*4.85*		*88.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.23*		*"*	*4.85*		*66.6*	*25-150*				
Surrogate: M2-6:2 FTS	*5.00*		*"*	*4.60*		*109*	*25-200*				
Surrogate: M2-8:2 FTS	*4.32*		*"*	*4.64*		*93.1*	*25-200*				
Surrogate: M9PFNA	*5.33*		*"*	*4.85*		*110*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21444 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BB21444-MS1) Matrix Spike	*Source sample: 22B0070-02 (Matrix Spike)								Prepared: 02/04/2022 Analyzed: 02/08/2022		
Perfluorobutanesulfonic acid (PFBS)	4.90	0.268	ug/kg dry	4.75	ND	103	25-150				
Perfluorohexanoic acid (PFHxA)	4.88	0.268	"	5.37	ND	91.0	25-150				
Perfluoroheptanoic acid (PFHpA)	5.01	0.268	"	5.37	ND	93.4	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.70	0.268	"	4.88	ND	96.3	25-150				
Perfluorooctanoic acid (PFOA)	5.39	0.268	"	5.37	ND	100	25-150				
Perfluorooctanesulfonic acid (PFOS)	6.50	0.268	"	4.96	ND	131	25-150				
Perfluorononanoic acid (PFNA)	4.68	0.268	"	5.37	ND	87.1	25-150				
Perfluorodecanoic acid (PFDA)	5.94	0.268	"	5.37	ND	111	25-150				
Perfluoroundecanoic acid (PFUnA)	5.33	0.268	"	5.37	ND	99.4	25-150				
Perfluorododecanoic acid (PFDoA)	5.26	0.268	"	5.37	ND	98.0	25-150				
Perfluorotridecanoic acid (PFTrDA)	5.18	0.268	"	5.37	ND	96.6	25-150				
Perfluorotetradecanoic acid (PFTA)	5.16	0.268	"	5.37	ND	96.1	25-150				
N-MeFOSAA	5.88	0.268	"	5.37	ND	110	25-150				
N-EtFOSAA	6.42	0.268	"	5.37	ND	120	25-150				
Perfluoropentanoic acid (PFPeA)	5.45	0.268	"	5.37	ND	102	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.11	0.268	"	5.37	ND	95.3	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.85	0.268	"	5.12	ND	114	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	5.19	0.268	"	5.18	ND	100	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	6.06	0.268	"	5.10	ND	119	25-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.90	0.268	"	5.15	ND	115	25-200				
Perfluoro-n-butanoic acid (PFBA)	5.39	0.268	"	5.37	ND	100	25-150				
Surrogate: M3PFBS	*4.30*		*"*	*4.98*		*86.2*	*25-150*				
Surrogate: M5PFHxA	*4.67*		*"*	*5.37*		*87.0*	*25-150*				
Surrogate: M4PFHpA	*4.83*		*"*	*5.37*		*90.1*	*25-150*				
Surrogate: M3PFHxS	*4.55*		*"*	*5.08*		*89.6*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.36*		*"*	*5.37*		*81.3*	*25-150*				
Surrogate: M6PFDA	*3.87*		*"*	*5.37*		*72.0*	*25-150*				
Surrogate: M7PFUdA	*4.01*		*"*	*5.37*		*74.8*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.97*		*"*	*5.37*		*74.0*	*25-150*				
Surrogate: M2PFTeDA	*3.72*		*"*	*5.37*		*69.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.66*		*"*	*5.37*		*86.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.76*		*"*	*5.13*		*73.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.75*		*"*	*5.37*		*88.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.29*		*"*	*5.37*		*61.4*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.49*		*"*	*5.37*		*65.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.72*		*"*	*5.37*		*69.2*	*25-150*				
Surrogate: M2-6:2 FTS	*3.67*		*"*	*5.09*		*72.0*	*25-200*				
Surrogate: M2-8:2 FTS	*4.31*		*"*	*5.14*		*83.8*	*25-200*				
Surrogate: M9PFNA	*4.80*		*"*	*5.37*		*89.4*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21444 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike Dup (BB21444-M Matrix Spike Dup	*Source sample: 22B0070-02 (Matrix Spike Dup)								Prepared: 02/04/2022 Analyzed: 02/08/2022		
Perfluorobutanesulfonic acid (PFBS)	4.36	0.258	ug/kg dry	4.57	ND	95.4	25-150		11.6	35	
Perfluorohexanoic acid (PFHxA)	4.40	0.258	"	5.16	ND	85.2	25-150		10.5	35	
Perfluoroheptanoic acid (PFHpA)	5.10	0.258	"	5.16	ND	98.8	25-150		1.70	35	
Perfluorohexanesulfonic acid (PFHxS)	4.32	0.258	"	4.70	ND	92.0	25-150		8.41	35	
Perfluorooctanoic acid (PFOA)	4.98	0.258	"	5.16	ND	96.4	25-150		7.90	35	
Perfluorooctanesulfonic acid (PFOS)	5.54	0.258	"	4.77	ND	116	25-150		16.1	35	
Perfluorononanoic acid (PFNA)	4.28	0.258	"	5.16	ND	82.9	25-150		8.91	35	
Perfluorodecanoic acid (PFDA)	5.66	0.258	"	5.16	ND	110	25-150		4.80	35	
Perfluoroundecanoic acid (PFUnA)	5.14	0.258	"	5.16	ND	99.6	25-150		3.66	35	
Perfluorododecanoic acid (PFDoA)	4.90	0.258	"	5.16	ND	95.0	25-150		7.01	35	
Perfluorotridecanoic acid (PFTrDA)	5.32	0.258	"	5.16	ND	103	25-150		2.71	35	
Perfluorotetradecanoic acid (PFTA)	4.96	0.258	"	5.16	ND	96.1	25-150		3.88	35	
N-MeFOSAA	4.69	0.258	"	5.16	ND	90.9	25-150		22.4	35	
N-EtFOSAA	5.11	0.258	"	5.16	ND	99.0	25-150		22.8	35	
Perfluoropentanoic acid (PFPeA)	4.87	0.258	"	5.16	ND	94.4	25-150		11.2	35	
Perfluoro-1-octanesulfonamide (FOSA)	4.59	0.258	"	5.16	ND	88.9	25-150		10.9	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.79	0.258	"	4.93	ND	117	25-150		1.17	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.13	0.258	"	4.98	ND	83.0	25-150		22.7	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	4.51	0.258	"	4.90	ND	92.0	25-200		29.3	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	7.42	0.258	"	4.95	ND	150	25-200		22.7	35	
Perfluoro-n-butanoic acid (PFBA)	4.94	0.258	"	5.16	ND	95.6	25-150		8.75	35	
Surrogate: M3PFBS	*4.07*		"	*4.79*		*84.8*	*25-150*				
Surrogate: M5PFHxA	*4.57*		"	*5.16*		*88.6*	*25-150*				
Surrogate: M4PFHpA	*4.25*		"	*5.16*		*82.4*	*25-150*				
Surrogate: M3PFHxS	*4.38*		"	*4.88*		*89.8*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.22*		"	*5.16*		*81.8*	*25-150*				
Surrogate: M6PFDA	*3.14*		"	*5.16*		*60.9*	*25-150*				
Surrogate: M7PFUdA	*3.64*		"	*5.16*		*70.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.38*		"	*5.16*		*65.6*	*25-150*				
Surrogate: M2PFTeDA	*3.27*		"	*5.16*		*63.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.50*		"	*5.16*		*87.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.58*		"	*4.94*		*72.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.58*		"	*5.16*		*88.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.04*		"	*5.16*		*58.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.68*		"	*5.16*		*71.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.79*		"	*5.16*		*73.5*	*25-150*				
Surrogate: M2-6:2 FTS	*3.68*		"	*4.90*		*75.1*	*25-200*				
Surrogate: M2-8:2 FTS	*2.36*		"	*4.94*		*47.8*	*25-200*				
Surrogate: M9PFNA	*4.48*		"	*5.16*		*86.9*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21486 - SPE Ext-PFAS-EPA 537.1M											
Blank (BB21486-BLK1) Blank									Prepared & Analyzed: 02/07/2022		
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	5.00	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Surrogate: M3PFBS	*70.2*		"	*74.3*		*94.5*	*25-150*				
Surrogate: M5PFHxA	*75.9*		"	*80.0*		*94.9*	*25-150*				
Surrogate: M4PFHpA	*78.3*		"	*80.0*		*97.8*	*25-150*				
Surrogate: M3PFHxS	*70.6*		"	*75.7*		*93.3*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*80.3*		"	*80.0*		*100*	*25-150*				
Surrogate: M6PFDA	*75.6*		"	*80.0*		*94.4*	*25-150*				
Surrogate: M7PFUdA	*71.8*		"	*80.0*		*89.7*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*57.7*		"	*80.0*		*72.2*	*25-150*				
Surrogate: M2PFTeDA	*46.4*		"	*80.0*		*58.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*81.4*		"	*80.0*		*102*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*77.8*		"	*76.6*		*102*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*80.8*		"	*80.0*		*101*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*15.0*		"	*80.0*		*18.8*	*10-150*				
Surrogate: d3-N-MeFOSAA	*59.7*		"	*80.0*		*74.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*50.6*		"	*80.0*		*63.3*	*25-150*				
Surrogate: M2-6:2 FTS	*64.9*		"	*75.9*		*85.5*	*25-200*				
Surrogate: M2-8:2 FTS	*65.5*		"	*76.6*		*85.4*	*25-200*				
Surrogate: M9PFNA	*90.5*		"	*80.0*		*113*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21486 - SPE Ext-PFAS-EPA 537.1M											
LCS (BB21486-BS1) LCS							Prepared & Analyzed: 02/07/2022				
Perfluorobutanesulfonic acid (PFBS)	70.4	2.00	ng/L	70.8		99.4	50-130				
Perfluorohexanoic acid (PFHxA)	74.8	2.00	"	80.0		93.5	50-130				
Perfluoroheptanoic acid (PFHpA)	77.6	2.00	"	80.0		97.0	50-130				
Perfluorohexanesulfonic acid (PFHxS)	66.8	2.00	"	72.8		91.8	50-130				
Perfluorooctanoic acid (PFOA)	71.5	2.00	"	80.0		89.3	50-130				
Perfluorooctanesulfonic acid (PFOS)	85.0	2.00	"	74.0		115	50-130				
Perfluorononanoic acid (PFNA)	64.3	2.00	"	80.0		80.4	50-130				
Perfluorodecanoic acid (PFDA)	74.4	2.00	"	80.0		93.0	50-130				
Perfluoroundecanoic acid (PFUnA)	85.6	2.00	"	80.0		107	50-130				
Perfluorododecanoic acid (PFDoA)	78.7	2.00	"	80.0		98.4	50-130				
Perfluorotridecanoic acid (PFTrDA)	73.9	2.00	"	80.0		92.4	50-130				
Perfluorotetradecanoic acid (PFTA)	83.5	2.00	"	80.0		104	50-130				
N-MeFOSAA	81.6	2.00	"	80.0		102	50-130				
N-EtFOSAA	90.1	2.00	"	80.0		113	50-130				
Perfluoropentanoic acid (PFPeA)	77.4	2.00	"	80.0		96.7	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	76.5	2.00	"	80.0		95.6	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	83.1	2.00	"	76.4		109	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	54.9	2.00	"	77.2		71.1	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	56.0	5.00	"	76.0		73.6	50-175				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	72.7	2.00	"	76.8		94.6	50-175				
Perfluoro-n-butanoic acid (PFBA)	76.7	2.00	"	80.0		95.9	50-130				
Surrogate: M3PFBS	*65.5*		*"*	*74.3*		*88.2*	*25-150*				
Surrogate: M5PFHxA	*74.1*		*"*	*80.0*		*92.7*	*25-150*				
Surrogate: M4PFHpA	*72.3*		*"*	*80.0*		*90.4*	*25-150*				
Surrogate: M3PFHxS	*73.5*		*"*	*75.7*		*97.1*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*82.9*		*"*	*80.0*		*104*	*25-150*				
Surrogate: M6PFDA	*80.2*		*"*	*80.0*		*100*	*25-150*				
Surrogate: M7PFUdA	*64.8*		*"*	*80.0*		*81.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*63.0*		*"*	*80.0*		*78.8*	*25-150*				
Surrogate: M2PFTeDA	*48.2*		*"*	*80.0*		*60.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*76.0*		*"*	*80.0*		*95.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*79.9*		*"*	*76.6*		*104*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*76.2*		*"*	*80.0*		*95.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*20.0*		*"*	*80.0*		*25.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*62.4*		*"*	*80.0*		*78.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*53.6*		*"*	*80.0*		*67.0*	*25-150*				
Surrogate: M2-6:2 FTS	*92.8*		*"*	*75.9*		*122*	*25-200*				
Surrogate: M2-8:2 FTS	*93.1*		*"*	*76.6*		*122*	*25-200*				
Surrogate: M9PFNA	*91.9*		*"*	*80.0*		*115*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21486 - SPE Ext-PFAS-EPA 537.1M											
LCS Dup (BB21486-BSD1) LCS Dup							Prepared & Analyzed: 02/07/2022				
Perfluorobutanesulfonic acid (PFBS)	68.9	2.00	ng/L	70.8		97.3	50-130		2.21	30	
Perfluorohexanoic acid (PFHxA)	71.4	2.00	"	80.0		89.2	50-130		4.68	30	
Perfluoroheptanoic acid (PFHpA)	73.9	2.00	"	80.0		92.4	50-130		4.90	30	
Perfluorohexanesulfonic acid (PFHxS)	68.3	2.00	"	72.8		93.8	50-130		2.15	30	
Perfluorooctanoic acid (PFOA)	69.1	2.00	"	80.0		86.4	50-130		3.36	30	
Perfluorooctanesulfonic acid (PFOS)	71.1	2.00	"	74.0		96.1	50-130		17.7	30	
Perfluorononanoic acid (PFNA)	62.9	2.00	"	80.0		78.7	50-130		2.16	30	
Perfluorodecanoic acid (PFDA)	72.9	2.00	"	80.0		91.2	50-130		2.02	30	
Perfluoroundecanoic acid (PFUnA)	71.4	2.00	"	80.0		89.3	50-130		18.0	30	
Perfluorododecanoic acid (PFDoA)	70.8	2.00	"	80.0		88.5	50-130		10.6	30	
Perfluorotridecanoic acid (PFTrDA)	70.3	2.00	"	80.0		87.9	50-130		4.99	30	
Perfluorotetradecanoic acid (PFTA)	73.2	2.00	"	80.0		91.5	50-130		13.1	30	
N-MeFOSAA	72.1	2.00	"	80.0		90.2	50-130		12.3	30	
N-EtFOSAA	90.7	2.00	"	80.0		113	50-130		0.753	30	
Perfluoropentanoic acid (PFPeA)	76.3	2.00	"	80.0		95.3	50-130		1.49	30	
Perfluoro-1-octanesulfonamide (FOSA)	78.5	2.00	"	80.0		98.2	50-130		2.66	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	82.5	2.00	"	76.4		108	50-130		0.771	30	
Perfluoro-1-decanesulfonic acid (PFDS)	52.4	2.00	"	77.2		67.8	50-130		4.68	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	58.1	5.00	"	76.0		76.5	50-175		3.77	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	89.8	2.00	"	76.8		117	50-175		21.0	30	
Perfluoro-n-butanoic acid (PFBA)	74.1	2.00	"	80.0		92.6	50-130		3.53	30	
Surrogate: M3PFBS	*72.4*		*"*	*74.3*		*97.4*	*25-150*				
Surrogate: M5PFHxA	*80.5*		*"*	*80.0*		*101*	*25-150*				
Surrogate: M4PFHpA	*81.3*		*"*	*80.0*		*102*	*25-150*				
Surrogate: M3PFHxS	*73.1*		*"*	*75.7*		*96.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*81.2*		*"*	*80.0*		*101*	*25-150*				
Surrogate: M6PFDA	*73.1*		*"*	*80.0*		*91.4*	*25-150*				
Surrogate: M7PFUdA	*67.3*		*"*	*80.0*		*84.1*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*63.6*		*"*	*80.0*		*79.5*	*25-150*				
Surrogate: M2PFTeDA	*49.8*		*"*	*80.0*		*62.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*80.6*		*"*	*80.0*		*101*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*74.5*		*"*	*76.6*		*97.3*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*79.2*		*"*	*80.0*		*99.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*15.9*		*"*	*80.0*		*19.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*55.8*		*"*	*80.0*		*69.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*47.8*		*"*	*80.0*		*59.8*	*25-150*				
Surrogate: M2-6:2 FTS	*82.3*		*"*	*75.9*		*108*	*25-200*				
Surrogate: M2-8:2 FTS	*74.3*		*"*	*76.6*		*97.0*	*25-200*				
Surrogate: M9PFNA	*89.7*		*"*	*80.0*		*112*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21469 - EPA 3550C											
Blank (BB21469-BLK1) Blank									Prepared: 02/07/2022 Analyzed: 02/08/2022		
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0400*		*"*	*0.0664*		*60.2*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0393*		*"*	*0.0664*		*59.1*	*30-150*				
LCS (BB21469-BS1) LCS									Prepared: 02/07/2022 Analyzed: 02/08/2022		
4,4'-DDD	0.0256	0.00164	mg/kg wet	0.0332		77.2	40-140				
4,4'-DDE	0.0240	0.00164	"	0.0332		72.4	40-140				
4,4'-DDT	0.0171	0.00164	"	0.0332		51.3	40-140				
Aldrin	0.0247	0.00164	"	0.0332		74.5	40-140				
alpha-BHC	0.0262	0.00164	"	0.0332		78.8	40-140				
alpha-Chlordane	0.0245	0.00164	"	0.0332		73.9	40-140				
beta-BHC	0.0252	0.00164	"	0.0332		75.8	40-140				
delta-BHC	0.0246	0.00164	"	0.0332		73.9	40-140				
Dieldrin	0.0246	0.00164	"	0.0332		74.2	40-140				
Endosulfan I	0.0252	0.00164	"	0.0332		75.8	40-140				
Endosulfan II	0.0234	0.00164	"	0.0332		70.6	40-140				
Endosulfan sulfate	0.0206	0.00164	"	0.0332		61.9	40-140				
Endrin	0.0247	0.00164	"	0.0332		74.3	40-140				
Endrin aldehyde	0.0286	0.00164	"	0.0332		86.1	40-140				
Endrin ketone	0.0275	0.00164	"	0.0332		82.9	40-140				
gamma-BHC (Lindane)	0.0269	0.00164	"	0.0332		80.9	40-140				
gamma-Chlordane	0.0245	0.00164	"	0.0332		73.9	40-140				
Heptachlor	0.0241	0.00164	"	0.0332		72.7	40-140				
Heptachlor epoxide	0.0256	0.00164	"	0.0332		77.0	40-140				
Methoxychlor	0.0227	0.00164	"	0.0332		68.2	40-140				
Surrogate: Decachlorobiphenyl	*0.0438*		*"*	*0.0664*		*65.9*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0419*		*"*	*0.0664*		*63.1*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21469 - EPA 3550C											
Matrix Spike (BB21469-MS1) Matrix Spike	*Source sample: 22B0221-01 (Matrix Spike)									Prepared: 02/07/2022 Analyzed: 02/10/2022	
4,4'-DDD	0.0346	0.00207	mg/kg dry	0.0418	ND	82.8	30-150				
4,4'-DDE	0.0305	0.00207	"	0.0418	ND	73.0	30-150				
4,4'-DDT	0.0204	0.00207	"	0.0418	ND	48.9	30-150				
Aldrin	0.0319	0.00207	"	0.0418	ND	76.2	30-150				
alpha-BHC	0.0336	0.00207	"	0.0418	ND	80.3	30-150				
alpha-Chlordane	0.0319	0.00207	"	0.0418	ND	76.2	30-150				
beta-BHC	0.0320	0.00207	"	0.0418	ND	76.4	30-150				
delta-BHC	0.0330	0.00207	"	0.0418	ND	78.9	30-150				
Dieldrin	0.0314	0.00207	"	0.0418	ND	75.1	30-150				
Endosulfan I	0.0328	0.00207	"	0.0418	ND	78.3	30-150				
Endosulfan II	0.0329	0.00207	"	0.0418	ND	78.6	30-150				
Endosulfan sulfate	0.0296	0.00207	"	0.0418	ND	70.7	30-150				
Endrin	0.0314	0.00207	"	0.0418	ND	75.2	30-150				
Endrin aldehyde	0.0419	0.00207	"	0.0418	ND	100	30-150				
Endrin ketone	0.0389	0.00207	"	0.0418	ND	93.1	30-150				
gamma-BHC (Lindane)	0.0347	0.00207	"	0.0418	ND	83.0	30-150				
gamma-Chlordane	0.0321	0.00207	"	0.0418	ND	76.9	30-150				
Heptachlor	0.0311	0.00207	"	0.0418	ND	74.3	30-150				
Heptachlor epoxide	0.0329	0.00207	"	0.0418	ND	78.7	30-150				
Methoxychlor	0.0257	0.00207	"	0.0418	ND	61.4	30-150				
Surrogate: Decachlorobiphenyl	*0.0550*		*"*	*0.0837*		*65.7*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0453*		*"*	*0.0837*		*54.2*	*30-150*				
Matrix Spike Dup (BB21469-M Matrix Spike Dup	*Source sample: 22B0221-01 (Matrix Spike Dup)									Prepared: 02/07/2022 Analyzed: 02/10/2022	
4,4'-DDD	0.0360	0.00207	mg/kg dry	0.0418	ND	86.1	30-150		3.93	30	
4,4'-DDE	0.0326	0.00207	"	0.0418	ND	77.8	30-150		6.36	30	
4,4'-DDT	0.0203	0.00207	"	0.0418	ND	48.6	30-150		0.616	30	
Aldrin	0.0351	0.00207	"	0.0418	ND	84.0	30-150		9.68	30	
alpha-BHC	0.0362	0.00207	"	0.0418	ND	86.7	30-150		7.61	30	
alpha-Chlordane	0.0346	0.00207	"	0.0418	ND	82.8	30-150		8.27	30	
beta-BHC	0.0350	0.00207	"	0.0418	ND	83.6	30-150		8.99	30	
delta-BHC	0.0351	0.00207	"	0.0418	ND	84.0	30-150		6.20	30	
Dieldrin	0.0342	0.00207	"	0.0418	ND	81.7	30-150		8.41	30	
Endosulfan I	0.0360	0.00207	"	0.0418	ND	86.1	30-150		9.43	30	
Endosulfan II	0.0333	0.00207	"	0.0418	ND	79.6	30-150		1.25	30	
Endosulfan sulfate	0.0299	0.00207	"	0.0418	ND	71.5	30-150		1.05	30	
Endrin	0.0313	0.00207	"	0.0418	ND	74.9	30-150		0.306	30	
Endrin aldehyde	0.0448	0.00207	"	0.0418	ND	107	30-150		6.80	30	
Endrin ketone	0.0394	0.00207	"	0.0418	ND	94.3	30-150		1.33	30	
gamma-BHC (Lindane)	0.0375	0.00207	"	0.0418	ND	89.6	30-150		7.61	30	
gamma-Chlordane	0.0345	0.00207	"	0.0418	ND	82.4	30-150		7.01	30	
Heptachlor	0.0324	0.00207	"	0.0418	ND	77.4	30-150		4.13	30	
Heptachlor epoxide	0.0356	0.00207	"	0.0418	ND	85.1	30-150		7.83	30	
Methoxychlor	0.0254	0.00207	"	0.0418	ND	60.7	30-150		1.15	30	
Surrogate: Decachlorobiphenyl	*0.0598*		*"*	*0.0837*		*71.5*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0496*		*"*	*0.0837*		*59.3*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y2B0801 - BB21154											
Performance Mix (Y2B0801-P Performance Mix							Prepared & Analyzed: 02/07/2022				
4,4'-DDD	17.4		ng/mL	0.00			0-200				
4,4'-DDE	2.85		"	0.00			0-200				
4,4'-DDT	227		"	200		113	0-200				
Endrin	142		"	100		142	0-200				
Endrin aldehyde	7.48		"	0.00			0-200				
Endrin ketone	18.5		"	0.00			0-200				
Surrogate: Decachlorobiphenyl	*276*		*"*	*200*		*138*	*0-200*				
Surrogate: Tetrachloro-m-xylene	*277*		*"*	*200*		*139*	*0-200*				
Batch Y2B0919 - BB21553											
Performance Mix (Y2B0919-P Performance Mix							Prepared & Analyzed: 02/08/2022				
4,4'-DDD	15.6		ng/mL	0.00			0-200				
4,4'-DDE	2.56		"	0.00			0-200				
4,4'-DDT	185		"	200		92.3	0-200				
Endrin	132		"	100		132	0-200				
Endrin aldehyde	8.82		"	0.00			0-200				
Endrin ketone	16.6		"	0.00			0-200				
Surrogate: Decachlorobiphenyl	*283*		*"*	*200*		*142*	*0-200*				
Surrogate: Tetrachloro-m-xylene	*268*		*"*	*200*		*134*	*0-200*				
Batch Y2B1025 - BB21553											
Performance Mix (Y2B1025-P Performance Mix							Prepared & Analyzed: 02/09/2022				
4,4'-DDD	18.6		ng/mL	0.00			0-200				
4,4'-DDE	2.70		"	0.00			0-200				
4,4'-DDT	215		"	200		107	0-200				
Endrin	129		"	100		129	0-200				
Endrin aldehyde	2.89		"	0.00			0-200				
Endrin ketone	17.7		"	0.00			0-200				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y2B1025 - BB21553											
Performance Mix (Y2B1025-P Performance Mix									Prepared & Analyzed: 02/09/2022		
4,4'-DDD	20.4		ng/mL	0.00			0-200				
4,4'-DDE	2.57		"	0.00			0-200				
4,4'-DDT	200		"	200		100	0-200				
Endrin	143		"	100		143	0-200				
Endrin aldehyde	10.4		"	0.00			0-200				
Endrin ketone	18.6		"	0.00			0-200				
Batch Y2B1118 - BB21626											
Performance Mix (Y2B1118-P Performance Mix									Prepared & Analyzed: 02/10/2022		
4,4'-DDD	23.9		ng/mL	0.00			0-200				
4,4'-DDE	3.55		"	0.00			0-200				
4,4'-DDT	237		"	200		119	0-200				
Endrin	171		"	100		171	0-200				
Endrin aldehyde	12.2		"	0.00			0-200				
Endrin ketone	21.1		"	0.00			0-200				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21469 - EPA 3550C											
Blank (BB21469-BLK2) Blank								Prepared & Analyzed: 02/07/2022			
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0618*		*"*	*0.0664*		*93.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0641*		*"*	*0.0664*		*96.5*	*30-120*				
LCS (BB21469-BS2) LCS								Prepared: 02/07/2022 Analyzed: 02/08/2022			
Aroclor 1016	0.255	0.0166	mg/kg wet	0.332		76.9	40-130				
Aroclor 1260	0.266	0.0166	"	0.332		80.0	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0575*		*"*	*0.0664*		*86.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0571*		*"*	*0.0664*		*86.0*	*30-120*				
Matrix Spike (BB21469-MS2) Matrix Spike *Source sample: 22B0221-01 (Matrix Spike)								Prepared: 02/07/2022 Analyzed: 02/08/2022			
Aroclor 1016	0.404	0.0209	mg/kg dry	0.418	ND	96.6	40-140				
Aroclor 1260	0.440	0.0209	"	0.418	ND	105	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0707*		*"*	*0.0837*		*84.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0765*		*"*	*0.0837*		*91.5*	*30-120*				
Matrix Spike Dup (BB21469-M Matrix Spike Dup *Source sample: 22B0221-01 (Matrix Spike Dup)								Prepared: 02/07/2022 Analyzed: 02/08/2022			
Aroclor 1016	0.399	0.0209	mg/kg dry	0.418	ND	95.4	40-140		1.23	50	
Aroclor 1260	0.429	0.0209	"	0.418	ND	103	40-140		2.46	50	
Surrogate: Tetrachloro-m-xylene	*0.0707*		*"*	*0.0837*		*84.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0749*		*"*	*0.0837*		*89.5*	*30-120*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y2B0736 - BB21469											
Aroclor Reference (Y2B0736- Aroclor Reference									Prepared & Analyzed: 02/07/2022		
Surrogate: Tetrachloro-m-xylene	*0.208*		*ug/mL*	*0.200*		*104*					
Surrogate: Decachlorobiphenyl	*0.191*		*"*	*0.200*		*95.5*					
Batch Y2B0812 - BB21395											
Aroclor Reference (Y2B0812- Aroclor Reference									Prepared & Analyzed: 02/07/2022		
Surrogate: Tetrachloro-m-xylene	*0.192*		*ug/mL*	*0.200*		*96.0*					
Surrogate: Decachlorobiphenyl	*0.200*		*"*	*0.200*		*100*					

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21456 - EPA 3550C/8151A											
Blank (BB21456-BLK1) Blank									Prepared: 02/07/2022 Analyzed: 02/08/2022		
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.194*		*"*	*0.415*		*46.8*	*21-150*				
LCS (BB21456-BS1) LCS									Prepared: 02/07/2022 Analyzed: 02/08/2022		
2,4,5-T	0.0648	0.0199	mg/kg wet	0.133		48.7	10-120				
2,4,5-TP (Silvex)	0.0748	0.0199	"	0.133		56.2	10-120				
2,4-D	0.0739	0.0199	"	0.133		55.6	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.305*		*"*	*0.415*		*73.4*	*21-150*				
Matrix Spike (BB21456-MS1) Matrix Spike *Source sample: 22B0106-09 (Matrix Spike)									Prepared: 02/07/2022 Analyzed: 02/08/2022		
2,4,5-T	0.0603	0.0234	mg/kg dry	0.156	ND	38.8	10-120				
2,4,5-TP (Silvex)	0.0681	0.0234	"	0.156	ND	43.8	10-120				
2,4-D	0.0710	0.0234	"	0.156	ND	45.6	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.288*		*"*	*0.487*		*59.2*	*21-150*				
Matrix Spike Dup (BB21456-M Matrix Spike Dup *Source sample: 22B0106-09 (Matrix Spike Dup)									Prepared: 02/07/2022 Analyzed: 02/08/2022		
2,4,5-T	0.0613	0.0234	mg/kg dry	0.156	ND	39.4	10-120		1.60	35	
2,4,5-TP (Silvex)	0.0681	0.0234	"	0.156	ND	43.8	10-120		0.00	35	
2,4-D	0.0691	0.0234	"	0.156	ND	44.4	10-118		2.78	35	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.243*		*"*	*0.487*		*50.0*	*21-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21541 - EPA 3050B											
Blank (BB21541-BLK1) Blank									Prepared: 02/07/2022 Analyzed: 02/08/2022		
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	6.27	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	ND	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								
Duplicate (BB21541-DUP1) Duplicate	*Source sample: 22B0266-03 (Duplicate)								Prepared: 02/07/2022 Analyzed: 02/09/2022		
Aluminum	13600	6.32	mg/kg dry		12300				9.78	35	
Antimony	ND	3.16	"		ND					35	
Arsenic	ND	1.89	"		ND					35	
Barium	62.3	3.16	"		62.5				0.352	35	
Beryllium	ND	0.063	"		ND					35	
Cadmium	ND	0.379	"		ND					35	
Calcium	8980	6.32	"		4870				59.4	35	Non-dir.
Chromium	17.1	0.632	"		16.8				1.61	35	
Cobalt	10.2	0.505	"		13.3				26.1	35	
Copper	36.0	2.53	"		22.3				47.1	35	Non-dir.
Iron	20200	31.6	"		19100				5.61	35	
Lead	58.0	0.632	"		33.1				54.7	35	Non-dir.
Magnesium	6270	6.32	"		3560				55.2	35	Non-dir.
Manganese	482	0.632	"		596				21.3	35	
Nickel	19.8	1.26	"		17.0				15.4	35	
Potassium	1320	6.32	"		1160				12.5	35	
Selenium	ND	3.16	"		ND					35	
Silver	ND	0.632	"		ND					35	
Sodium	749	63.2	"		684				9.08	35	
Thallium	ND	3.16	"		ND					35	
Vanadium	41.1	1.26	"		35.0				15.9	35	
Zinc	113	3.16	"		82.4				31.2	35	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21541 - EPA 3050B											
Matrix Spike (BB21541-MS1) Matrix Spike	*Source sample: 22B0266-03 (Matrix Spike)								Prepared: 02/07/2022 Analyzed: 02/09/2022		
Aluminum	16800	6.32	mg/kg dry	253	12300	NR	75-125	High Bias			
Antimony	11.8	3.16	"	31.6	ND	37.3	75-125	Low Bias			
Arsenic	277	1.89	"	253	ND	110	75-125				
Barium	365	3.16	"	253	62.5	120	75-125				
Beryllium	6.41	0.063	"	6.32	ND	101	75-125				
Cadmium	7.34	0.379	"	6.32	ND	116	75-125				
Calcium	6280	6.32	"	126	4870	NR	75-125	High Bias			
Chromium	47.6	0.632	"	25.3	16.8	122	75-125				
Cobalt	86.8	0.505	"	63.2	13.3	116	75-125				
Copper	69.2	2.53	"	31.6	22.3	149	75-125	High Bias			
Iron	23400	31.6	"	126	19100	NR	75-125	High Bias			
Lead	112	0.632	"	63.2	33.1	125	75-125				
Magnesium	4670	6.32	"	126	3560	884	75-125	High Bias			
Manganese	481	0.632	"	63.2	596	NR	75-125	Low Bias			
Nickel	99.4	1.26	"	63.2	17.0	131	75-125	High Bias			
Potassium	1650	6.32	"	126	1160	390	75-125	High Bias			
Selenium	205	3.16	"	253	ND	81.1	75-125				
Silver	6.07	0.632	"	6.32	ND	96.1	75-125				
Sodium	1000	63.2	"	126	684	251	75-125	High Bias			
Thallium	261	3.16	"	253	ND	103	75-125				
Vanadium	121	1.26	"	63.2	35.0	136	75-125	High Bias			
Zinc	173	3.16	"	63.2	82.4	143	75-125	High Bias			
Post Spike (BB21541-PS1) Post Spike	*Source sample: 22B0266-03 (Post Spike)								Prepared: 02/07/2022 Analyzed: 02/09/2022		
Aluminum	112		ug/mL	2.00	97.3	729	75-125	High Bias			
Antimony	0.313		"	0.250	0.017	118	75-125				
Arsenic	2.18		"	2.00	0.008	109	75-125				
Barium	2.83		"	2.00	0.495	117	75-125				
Beryllium	0.048		"	0.0500	-0.005	96.0	75-125				
Cadmium	0.058		"	0.0500	0.002	112	75-125				
Calcium	71.2		"	1.00	38.5	NR	75-125	High Bias			
Chromium	0.359		"	0.200	0.133	113	75-125				
Cobalt	0.659		"	0.500	0.105	111	75-125				
Copper	0.574		"	0.250	0.177	159	75-125	High Bias			
Iron	164		"	1.00	151	NR	75-125	High Bias			
Lead	1.04		"	0.500	0.262	156	75-125	High Bias			
Magnesium	51.6		"	1.00	28.2	NR	75-125	High Bias			
Manganese	4.39		"	0.500	4.72	NR	75-125	Low Bias			
Nickel	0.749		"	0.500	0.134	123	75-125				
Potassium	12.7		"	1.00	9.19	350	75-125	High Bias			
Selenium	1.71		"	2.00	-0.222	85.5	75-125				
Silver	0.048		"	0.0500	-0.002	95.5	75-125				
Sodium	7.32		"	1.00	5.41	191	75-125	High Bias			
Thallium	2.05		"	2.00	-0.022	103	75-125				
Vanadium	0.885		"	0.500	0.277	122	75-125				
Zinc	1.46		"	0.500	0.652	162	75-125	High Bias			

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21541 - EPA 3050B											
Reference (BB21541-SRM1) Reference								Prepared: 02/07/2022 Analyzed: 02/09/2022			
Aluminum	10400	5.00	mg/kg wet	8130		127	49.9-150.1				
Antimony	73.7	2.50	"	134		55.0	19.3-250				
Arsenic	188	1.50	"	156		120	69.9-130.1				
Barium	321	2.50	"	239		134	74.9-124.7	High Bias			
Beryllium	222	0.050	"	169		131	75.1-125.4	High Bias			
Cadmium	178	0.300	"	137		130	75.2-124.8	High Bias			
Calcium	5850	5.00	"	4760		123	72.7-127.5				
Chromium	190	0.500	"	154		123	70.1-129.9				
Cobalt	159	0.400	"	121		131	75-124.8	High Bias			
Copper	68.5	2.00	"	54.9		125	74.9-125				
Iron	16300	25.0	"	14100		116	34.9-164.5				
Lead	156	0.500	"	130		120	71.8-128.5				
Magnesium	2820	5.00	"	2320		122	62.1-137.9				
Manganese	333	0.500	"	269		124	74-126.4				
Nickel	84.4	1.00	"	53.9		157	69.9-129.9	High Bias			
Potassium	2420	5.00	"	2020		120	58.9-141.1				
Selenium	147	2.50	"	167		88.1	67.7-132.3				
Silver	38.2	0.500	"	33.6		114	68.5-131.3				
Sodium	164	50.0	"	133		123	35-165.4				
Thallium	131	2.50	"	112		117	67.9-131.3				
Vanadium	73.0	1.00	"	62.6		117	59.1-141.1				
Zinc	188	2.50	"	158		119	70.3-129.7				
Batch BB22490 - EPA 3050B											
Blank (BB22490-BLK1) Blank								Prepared: 02/23/2022 Analyzed: 02/24/2022			
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	12.8	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22490 - EPA 3050B											
Duplicate (BB22490-DUP1) Duplicate	*Source sample: 22B1019-05 (Duplicate)								Prepared: 02/23/2022 Analyzed: 02/24/2022		
Aluminum	10400	6.01	mg/kg dry		8920				15.5	35	
Antimony	3.90	3.00	"		3.76				3.71	35	
Arsenic	ND	1.80	"		7.06					35	
Barium	113	3.00	"		152				29.5	35	
Beryllium	ND	0.060	"		ND					35	
Cadmium	ND	0.360	"		0.400					35	
Calcium	8000	6.01	"		8580				7.01	35	
Chromium	39.8	0.601	"		48.5				19.8	35	
Cobalt	24.0	0.481	"		19.0				22.9	35	
Copper	48.7	2.40	"		50.9				4.54	35	
Iron	25200	30.0	"		22100				13.1	35	
Lead	220	0.601	"		1330				143	35	Non-dir.
Magnesium	8910	6.01	"		7910				11.9	35	
Manganese	328	0.601	"		359				8.86	35	
Nickel	238	1.20	"		220				7.80	35	
Potassium	1200	6.01	"		1060				12.2	35	
Selenium	ND	3.00	"		ND					35	
Silver	1.74	0.601	"		ND					35	
Sodium	474	60.1	"		281				51.0	35	Non-dir.
Thallium	ND	3.00	"		ND					35	
Vanadium	38.4	1.20	"		35.0				9.16	35	
Zinc	130	3.00	"		199				41.7	35	Non-dir.
Matrix Spike (BB22490-MS1) Matrix Spike	*Source sample: 22B1019-05 (Matrix Spike)								Prepared: 02/23/2022 Analyzed: 02/24/2022		
Aluminum	10000	6.01	mg/kg dry	240	8920	460	75-125	High Bias			
Antimony	22.6	3.00	"	30.0	3.76	62.6	75-125	Low Bias			
Arsenic	304	1.80	"	240	7.06	123	75-125				
Barium	396	3.00	"	240	152	102	75-125				
Beryllium	6.25	0.060	"	6.01	ND	104	75-125				
Cadmium	7.98	0.360	"	6.01	0.400	126	75-125	High Bias			
Calcium	6900	6.01	"	120	8580	NR	75-125	Low Bias			
Chromium	83.6	0.601	"	24.0	48.5	146	75-125	High Bias			
Cobalt	94.6	0.481	"	60.1	19.0	126	75-125	High Bias			
Copper	89.9	2.40	"	30.0	50.9	130	75-125	High Bias			
Iron	21900	30.0	"	120	22100	NR	75-125	Low Bias			
Lead	342	0.601	"	60.1	1330	NR	75-125	Low Bias			
Magnesium	8000	6.01	"	120	7910	82.3	75-125				
Manganese	433	0.601	"	60.1	359	123	75-125				
Nickel	326	1.20	"	60.1	220	176	75-125	High Bias			
Potassium	1280	6.01	"	120	1060	185	75-125	High Bias			
Selenium	234	3.00	"	240	ND	97.6	75-125				
Silver	7.32	0.601	"	6.01	ND	122	75-125				
Sodium	366	60.1	"	120	281	70.9	75-125	Low Bias			
Thallium	280	3.00	"	240	ND	116	75-125				
Vanadium	105	1.20	"	60.1	35.0	117	75-125				
Zinc	234	3.00	"	60.1	199	58.3	75-125	Low Bias			

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22490 - EPA 3050B											
Post Spike (BB22490-PS1) Post Spike	*Source sample: 22B1019-05 (Post Spike)							Prepared: 02/23/2022 Analyzed: 02/24/2022			
Aluminum	76.1		ug/mL	2.00	74.3	93.2	75-125				
Antimony	0.371		"	0.250	0.031	136	75-125	High Bias			
Arsenic	2.60		"	2.00	0.059	127	75-125	High Bias			
Barium	3.65		"	2.00	1.27	119	75-125				
Beryllium	0.053		"	0.0500	-0.008	105	75-125				
Cadmium	0.069		"	0.0500	0.003	131	75-125	High Bias			
Calcium	71.3		"	1.00	71.5	NR	75-125	Low Bias			
Chromium	0.618		"	0.200	0.404	107	75-125				
Cobalt	0.784		"	0.500	0.159	125	75-125				
Copper	0.718		"	0.250	0.424	117	75-125				
Iron	183		"	1.00	184	NR	75-125	Low Bias			
Lead	11.3		"	0.500	11.1	42.6	75-125	Low Bias			
Magnesium	66.1		"	1.00	65.8	30.6	75-125	Low Bias			
Manganese	3.54		"	0.500	2.99	111	75-125				
Nickel	2.51		"	0.500	1.83	135	75-125	High Bias			
Potassium	9.88		"	1.00	8.83	105	75-125				
Selenium	2.03		"	2.00	-0.212	101	75-125				
Silver	0.036		"	0.0500	0.003	65.0	75-125	Low Bias			
Sodium	3.45		"	1.00	2.34	111	75-125				
Thallium	2.41		"	2.00	-0.021	120	75-125				
Vanadium	0.874		"	0.500	0.291	117	75-125				
Zinc	2.16		"	0.500	1.66	101	75-125				
Reference (BB22490-SRM1) Reference								Prepared: 02/23/2022 Analyzed: 02/24/2022			
Aluminum	9380	5.00	mg/kg wet	8130		115	49.9-150.1				
Antimony	146	2.50	"	134		109	19.3-250				
Arsenic	169	1.50	"	156		108	69.9-130.1				
Barium	255	2.50	"	239		107	74.9-124.7				
Beryllium	169	0.050	"	169		99.7	75.1-125.4				
Cadmium	147	0.300	"	137		107	75.2-124.8				
Calcium	4330	5.00	"	4760		91.0	72.7-127.5				
Chromium	159	0.500	"	154		104	70.1-129.9				
Cobalt	128	0.400	"	121		106	75-124.8				
Copper	60.0	2.00	"	54.9		109	74.9-125				
Iron	18100	25.0	"	14100		129	34.9-164.5				
Lead	145	0.500	"	130		111	71.8-128.5				
Magnesium	2350	5.00	"	2320		101	62.1-137.9				
Manganese	296	0.500	"	269		110	74-126.4				
Nickel	68.3	1.00	"	53.9		127	69.9-129.9				
Potassium	2240	5.00	"	2020		111	58.9-141.1				
Selenium	121	2.50	"	167		72.7	67.7-132.3				
Silver	32.7	0.500	"	33.6		97.2	68.5-131.3				
Sodium	151	50.0	"	133		113	35-165.4				
Thallium	109	2.50	"	112		97.4	67.9-131.3				
Vanadium	75.9	1.00	"	62.6		121	59.1-141.1				
Zinc	164	2.50	"	158		104	70.3-129.7				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	RPD Flag
Batch BB21623 - EPA 7473 soil											
Blank (BB21623-BLK1) Blank								Prepared: 02/08/2022 Analyzed: 02/09/2022			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BB21623-DUP1) Duplicate	*Source sample: 22B0132-01 (Duplicate)							Prepared: 02/08/2022 Analyzed: 02/09/2022			
Mercury	1.64	0.0343	mg/kg dry		2.96				57.3	35	Non-dir.
Matrix Spike (BB21623-MS1) Matrix Spike	*Source sample: 22B0132-01 (Matrix Spike)							Prepared: 02/08/2022 Analyzed: 02/09/2022			
Mercury	1.66		mg/kg	0.500	2.59	NR	75-125	Low Bias			
Reference (BB21623-SRM1) Reference								Prepared: 02/08/2022 Analyzed: 02/09/2022			
Mercury	26.751		mg/kg	27.2		98.3	59.9-140.1				
Batch BB22514 - EPA 7473 soil											
Blank (BB22514-BLK1) Blank								Prepared: 02/23/2022 Analyzed: 02/24/2022			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BB22514-DUP1) Duplicate	*Source sample: 22B0179-04 (004_LSB-3_4-6)							Prepared: 02/23/2022 Analyzed: 02/24/2022			
Mercury	1.89	0.0338	mg/kg dry		1.23				42.6	35	Non-dir.
Matrix Spike (BB22514-MS1) Matrix Spike	*Source sample: 22B0179-04 (004_LSB-3_4-6)							Prepared: 02/23/2022 Analyzed: 02/24/2022			
Mercury	3.09		mg/kg	0.500	1.09	400	75-125	High Bias			
Reference (BB22514-SRM1) Reference								Prepared: 02/23/2022 Analyzed: 02/24/2022			
Mercury	17.911		mg/kg	27.2		65.8	59.9-140.1				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21398 - Analysis Preparation Soil												
Blank (BB21398-BLK1)	Blank								Prepared & Analyzed: 02/04/2022			
Cyanide, total		ND	0.500	mg/kg wet								
Duplicate (BB21398-DUP1)	Duplicate	*Source sample: 22B0118-01 (Duplicate)							Prepared & Analyzed: 02/04/2022			
Cyanide, total		ND	0.626	mg/kg dry		ND					15	
Matrix Spike (BB21398-MS1)	Matrix Spike	*Source sample: 22B0118-01 (Matrix Spike)							Prepared & Analyzed: 02/04/2022			
Cyanide, total		13.5	0.626	mg/kg dry	12.5	ND	108	79.6-107	High Bias			
Reference (BB21398-SRM1)	Reference								Prepared & Analyzed: 02/04/2022			
Cyanide, total		98.7		ug/mL	86.8		114	41.82-157.83				
Batch BB21404 - EPA SW846-3060												
Blank (BB21404-BLK1)	Blank								Prepared & Analyzed: 02/04/2022			
Chromium, Hexavalent		ND	0.500	mg/kg wet								
Duplicate (BB21404-DUP1)	Duplicate	*Source sample: 22B0118-01 (Duplicate)							Prepared & Analyzed: 02/04/2022			
Chromium, Hexavalent		ND	0.626	mg/kg dry		ND					35	
Matrix Spike (BB21404-MS1)	Matrix Spike	*Source sample: 22B0118-01 (Matrix Spike)							Prepared & Analyzed: 02/04/2022			
Chromium, Hexavalent		ND	0.626	mg/kg dry	25.0	ND		75-125	Low Bias			
Reference (BB21404-SRM1)	Reference								Prepared & Analyzed: 02/04/2022			
Chromium, Hexavalent		48.8		mg/L	109		44.8	30-169.7				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21417 - % Solids Prep												
Duplicate (BB21417-DUP1)	Duplicate	*Source sample: 22B0180-03 (Duplicate)								Prepared & Analyzed: 02/04/2022		
% Solids		78.0	0.100	%		75.2				3.61	20	
Batch BB22423 - % Solids Prep												
Duplicate (BB22423-DUP1)	Duplicate	*Source sample: 22B0851-02 (Duplicate)								Prepared & Analyzed: 02/22/2022		
% Solids		81.4	0.100	%		82.7				1.62	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
22B0179-01	001_LSB-2_2-4	40mL Vial with Stir Bar-Cool 4° C
22B0179-03	003_LSB-3_2-4	40mL Vial with Stir Bar-Cool 4° C
22B0179-08	008_LSB-4_4-6	40mL Vial with Stir Bar-Cool 4° C
22B0179-10	010_TB-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PCB-I	PCB calculations are based uoon the average response of 5 peaks for each Aroclor. For this sample an internference was present and the analyst was unable to use all 5 peaks.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
M-BLK	The target analyte was detected above the RL in the batch method blank. All samples showed >10x the concentration in the blank for this analyte. Data are reported.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
HT-01	This result was reported from an analysis conducted outside of the EPA recommended holding time.
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: This report has been revised to include additional analyses as requested by the client

Field Chain-of-Custody Record

YORK
ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22B0179

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | 800-306-9675

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Langan	Company:	Company:	100964201	RUSH - Next Day
Address: 300 Kimball Drive Parsippany, NJ	Address: SAME	Address: SAME	YOUR Project Name: 213 Meadow Street	RUSH - Two Day
Phone: 973	Phone:	Phone:		RUSH - Three Day
Contact:	Contact:	Contact:		RUSH - Four Day
E-mail: MMatten@Langan.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Morgan McBride

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil | Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other:

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
001_LSB-2_2-4	S	2/3/22 1035	VOCs, SVOCs, pesticides, herbicides, TAL metals, cyanide, trivalent and hexavalent chromium, 1,4-dioxane, PFAS	
002_LSB-2_4-6		1040		* HOLD SAMPLE
003_LSB-3_2-4		1210		
004_LSB-3_4-6		1215		* HOLD SAMPLE
005_LSB-3_8-10		1220		* HOLD SAMPLE
~~006_LSB-4_0-2 (M)~~ 006_LSB-4_0-2		1330		* HOLD SAMPLE
007_LSB-4_2-4		1335		* HOLD SAMPLE
008_LSB-4_4-6		1340		
009_LSB-4_8-10		1345		* HOLD SAMPLE
010_TB-1	AQ		VOCs	

Comments: *Note hold samples (M)

Preservation: (check all that apply) HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Samples iced/chilled at time of lab pickup? circle Yes or No

Special Instruction: Field Filtered; Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Morgan McBride / Langan	2/3/22 1600	Mark N York Labs	2-3-22 1600	Mark N York Labs	2-3-22
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
	2/4/22 1233		2/3/22 2015		
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					2/3/22 2015 / 4.5 Degrees C

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22B0179

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | 800-306-9675

YOUR Information	Report To:	Invoice To:
Company:	Company:	Company:
Address: SAME	Address: SAME	Address: SAME
Phone:	Phone:	Phone:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 160964201

YOUR Project Name: 213 Meadow Street

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Morgen McBride

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | NJDKQP | NJDEP SRP HazSite
Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
011-EB-1	AQ	2/3/22 1550	PFAS	

Comments: *note: no equipment blank for PFAS was provided - this EB contains regular DI water

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Morgen McBride	2/3/22 1600	New York Labs	2-3-22 1600	Neil N York Labs	2-3-22
2. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
GCRD	2/4/22 1030	GCRD	2/3/22 2018		
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[illegible]	2/3/22 2018 / 4.5 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NJ)
300 Kimball Drive, 4th Floor
Parsipanny NJ, 07054-2172
Attention: Molly Mattern

Report Date: 02/17/2022
Client Project ID: 100964201
York Project (SDG) No.: 22B0234

Report Date: 02/17/2022
Client Project ID: 100964201
York Project (SDG) No.: 22B0234

Langan Engineering & Environmental Services (NJ)
300 Kimball Drive, 4th Floor
Parsipanny NJ, 07054-2172
Attention: Molly Mattern

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 04, 2022 and listed below. The project was identified as your project: **100964201**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22B0234-01	012_TB-2	Water	02/04/2022	02/04/2022
22B0234-02	013_EB-2	Water	02/04/2022	02/04/2022
22B0234-03	014_FB-1	Water	02/04/2022	02/04/2022
22B0234-04	015_LSB-1_2-4	Soil	02/04/2022	02/04/2022
22B0234-05	016_LSB-1_4-6	Soil	02/04/2022	02/04/2022
22B0234-10	022_LSB-6_8-10	Soil	02/04/2022	02/04/2022
22B0234-11	023_LSB-5_4-7	Soil	02/04/2022	02/04/2022
22B0234-13	025_LSB-5_15-17	Soil	02/04/2022	02/04/2022
22B0234-14	026_LSB-7_2-4	Soil	02/04/2022	02/04/2022
22B0234-17	029_DUP-1	Soil	02/04/2022	02/04/2022
22B0234-18	031_EB-3	Water	02/04/2022	02/04/2022

General Notes for York Project (SDG) No.: 22B0234

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By  **Date:** 02/17/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 012_TB-2 **York Sample ID:** 22B0234-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 3:00 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 012_TB-2 **York Sample ID:** 22B0234-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 3:00 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 012_TB-2 **York Sample ID:** 22B0234-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 3:00 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	**Methylene chloride**	**1.01**		ug/L	1.00	2.00	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 012_TB-2 **York Sample ID:** 22B0234-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 3:00 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	02/07/2022 06:05	02/07/2022 16:42	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*101 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*112 %*	*79-122*

Sample Information

Client Sample ID: 013_EB-2 **York Sample ID:** 22B0234-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 3:30 pm	02/04/2022

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	02/10/2022 07:43	02/14/2022 20:00	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*100 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL

Sample Information

Client Sample ID: 013_EB-2 **York Sample ID:** 22B0234-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 3:30 pm	02/04/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.46	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:14	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*95.1 %*	*25-150*
Surrogate: M5PFHxA	*95.9 %*	*25-150*
Surrogate: M4PFHpA	*94.0 %*	*25-150*
Surrogate: M3PFHxS	*93.1 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*99.0 %*	*25-150*
Surrogate: M6PFDA	*99.6 %*	*25-150*
Surrogate: M7PFUdA	*93.7 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*77.9 %*	*25-150*
Surrogate: M2PFTeDA	*53.6 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*94.2 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*93.9 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*94.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*33.7 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*82.6 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*72.7 %*	*25-150*
Surrogate: M2-6:2 FTS	*92.2 %*	*25-200*
Surrogate: M2-8:2 FTS	*111 %*	*25-200*
Surrogate: M9PFNA	*101 %*	*25-150*

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	**Methylene chloride**	**9.45**		ug/L	1.00	2.00	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	02/08/2022 06:47	02/08/2022 15:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*103 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*113 %*	*79-122*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.00	10.0	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
110-86-1	Pyridine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/10/2022 12:58	02/11/2022 10:58	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*27.6 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*13.9 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*54.7 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*61.7 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*76.5 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*68.4 %*	*30.7-106*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/L	0.500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP		
218-01-9	Chrysene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	Fluorene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
67-72-1	Hexachloroethane	ND		ug/L	0.500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	**Naphthalene**	**0.140**	B	ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	0.250	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-86-5	Pentachlorophenol	ND		ug/L	0.250	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
85-01-8	Phenanthrene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	Pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/10/2022 12:58	02/14/2022 16:59	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM	02/10/2022 07:43	02/14/2022 20:18	KH
							Certifications: NJDEP,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*84.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.85	1	EPA 537m	02/07/2022 10:45	02/07/2022 19:26	WL
							Certifications:			
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.85	1	EPA 537m	02/07/2022 10:45	02/07/2022 19:26	WL
							Certifications:			

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.63	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:26	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*93.8 %*	*25-150*
Surrogate: M5PFHxA	*99.1 %*	*25-150*
Surrogate: M4PFHpA	*96.2 %*	*25-150*

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	*92.4 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic aci	*111 %*			*25-150*					
	Surrogate: M6PFDA	*104 %*			*25-150*					
	Surrogate: M7PFUdA	*110 %*			*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*99.8 %*			*25-150*					
	Surrogate: M2PFTeDA	*80.5 %*			*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*96.2 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*102 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*93.4 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*35.8 %*			*10-150*					
	Surrogate: d3-N-MeFOSAA	*118 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*105 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*95.0 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*138 %*			*25-200*					
	Surrogate: M9PFNA	*114 %*			*25-150*					

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
12789-03-6	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	02/08/2022 13:21	02/09/2022 19:51	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.3 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	02/08/2022 13:21	02/09/2022 00:04	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	02/08/2022 13:21	02/09/2022 00:04	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	02/08/2022 13:21	02/09/2022 00:04	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	02/08/2022 13:21	02/09/2022 00:04	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	02/08/2022 13:21	02/09/2022 00:04	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	02/08/2022 13:21	02/09/2022 00:04	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	02/08/2022 13:21	02/09/2022 00:04	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	02/08/2022 13:21	02/09/2022 00:04	BJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*41.0 %*	*30-120*

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 15:06	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 15:06	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 15:06	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*67.6 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**4.83**		mg/L	0.0556	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**0.273**		mg/L	0.0278	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**58.7**	B	mg/L	0.0556	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**0.0114**		mg/L	0.00556	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**0.0127**		mg/L	0.00444	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**0.0354**		mg/L	0.0222	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**8.04**		mg/L	0.278	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**0.0279**		mg/L	0.00556	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**35.8**		mg/L	0.0556	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**2.47**		mg/L	0.00556	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**0.0947**		mg/L	0.0111	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**4.85**		mg/L	0.0556	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**167**		mg/L	0.556	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**0.0185**		mg/L	0.0111	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**0.0807**		mg/L	0.0278	1	EPA 6010D	02/08/2022 14:13	02/09/2022 15:02	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.00111	1	EPA 6020B	02/09/2022 09:48	02/09/2022 13:56	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	Arsenic	ND		mg/L	0.00111	1	EPA 6020B	02/09/2022 09:48	02/09/2022 13:56	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/L	0.000333	1	EPA 6020B	02/09/2022 09:48	02/09/2022 13:56	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/L	0.000556	1	EPA 6020B	02/09/2022 09:48	02/09/2022 13:56	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/L	0.00111	1	EPA 6020B	02/09/2022 09:48	02/09/2022 13:56	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/L	0.00111	1	EPA 6020B	02/09/2022 09:48	02/09/2022 13:56	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	02/08/2022 18:20	02/08/2022 18:20	AA
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 014_FB-1 **York Sample ID:** 22B0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 7:00 am	02/04/2022

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	02/04/2022 20:30	02/04/2022 22:16	ZTS
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**0.0110**		mg/L	0.0100	1	Calculation	02/11/2022 16:23	02/11/2022 18:09	PAM
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E	02/08/2022 09:05	02/08/2022 17:31	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: 015_LSB-1_2-4 **York Sample ID:** 22B0234-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:35 am	02/04/2022

Semivolatiles, 8270 PAH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	Pyrene	ND		mg/kg dry	0.0480	0.0958	2	EPA 8270D	02/16/2022 09:24	02/17/2022 13:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*79.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*53.1 %*	*21-113*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*66.7 %*	*24-116*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 015_LSB-1_2-4 **York Sample ID:** 22B0234-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:35 am	02/04/2022

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**5940**		mg/kg dry	5.84	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-36-0	**Antimony**	**11.9**		mg/kg dry	2.92	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**41.8**		mg/kg dry	1.75	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**452**		mg/kg dry	2.92	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	**Cadmium**	**2.96**		mg/kg dry	0.350	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**25300**	B	mg/kg dry	5.84	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**34.6**		mg/kg dry	0.584	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**12.1**		mg/kg dry	0.467	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**445**		mg/kg dry	2.34	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**109000**		mg/kg dry	29.2	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**1420**		mg/kg dry	0.584	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**3430**		mg/kg dry	5.84	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**629**		mg/kg dry	0.584	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**56.1**		mg/kg dry	1.17	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**1020**		mg/kg dry	5.84	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	2.92	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	**Silver**	**0.930**		mg/kg dry	0.584	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**441**		mg/kg dry	58.4	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	**Thallium**	**12.9**		mg/kg dry	2.92	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**20.1**		mg/kg dry	1.17	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**1310**	B	mg/kg dry	2.92	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:48	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 015_LSB-1_2-4 **York Sample ID:** 22B0234-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:35 am	02/04/2022

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.544**		mg/kg dry	0.0350	1	EPA 7473	02/17/2022 11:44	02/17/2022 12:08	BR
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.6**		%	0.100	1	SM 2540G	02/16/2022 17:46	02/17/2022 09:02	TJA
							Certifications:	CTDOH		

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	**1,2,4-Trimethylbenzene**	**0.0089**		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	**1,3,5-Trimethylbenzene**	**0.0034**	J	mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.046	0.091	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
78-93-3	**2-Butanone**	**0.0086**		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**0.027**		mg/kg dry	0.0046	0.0091	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0046	0.0091	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	**Isopropylbenzene**	**0.0066**		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	**Methylene chloride**	**0.0051**	J	mg/kg dry	0.0046	0.0091	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	**n-Butylbenzene**	**0.0058**		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	**n-Propylbenzene**	**0.0074**		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0046	0.0091	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	**sec-Butylbenzene**	**0.0071**		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0068	0.014	1	EPA 8260C	02/07/2022 06:57	02/08/2022 04:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*114 %*	*76-130*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.104	0.209	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.104	0.209	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.104	0.209	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	**2-Methylnaphthalene**	**0.0776**	J	mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.104	0.209	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.104	0.209	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.104	0.209	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.104	0.209	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.104	0.209	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	**Acenaphthene**	**0.126**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	**Acenaphthylene**	**0.0935**	J	mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		mg/kg dry	0.209	0.418	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**0.197**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		mg/kg dry	0.209	0.418	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	**Benzo(a)anthracene**	**0.322**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**0.343**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**0.280**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	**Benzo(g,h,i)perylene**	**0.144**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**0.255**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		mg/kg dry	0.104	0.209	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**0.303**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0609**	J	mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**0.978**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**0.214**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.180**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**0.154**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**1.33**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**0.734**		mg/kg dry	0.0523	0.104	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		mg/kg dry	0.209	0.418	2	EPA 8270D	02/07/2022 12:10	02/10/2022 19:45	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.6 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*56.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*52.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*64.5 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*43.5 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	02/09/2022 12:57	02/11/2022 17:34	KH
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*78.0 %*	*39-127.5*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.318	1	EPA 537m	02/08/2022 11:34	02/10/2022 15:57	WL
							Certifications:			
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.318	1	EPA 537m	02/08/2022 11:34	02/10/2022 15:57	WL
							Certifications:			
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.318	1	EPA 537m	02/08/2022 11:34	02/10/2022 15:57	WL
							Certifications:			
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.318	1	EPA 537m	02/08/2022 11:34	02/10/2022 15:57	WL
							Certifications:			
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.318	1	EPA 537m	02/08/2022 11:34	02/10/2022 15:57	WL
							Certifications:			

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.318	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 15:57	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*80.1 %*	*25-150*
Surrogate: M5PFHxA	*87.3 %*	*25-150*
Surrogate: M4PFHpA	*71.2 %*	*25-150*
Surrogate: M3PFHxS	*85.9 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*70.6 %*	*25-150*
Surrogate: M6PFDA	*70.8 %*	*25-150*
Surrogate: M7PFUdA	*69.7 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*66.8 %*	*25-150*
Surrogate: M2PFTeDA	*56.4 %*	*10-150*

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*75.7 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*72.3 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*76.3 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*61.0 %*			*10-150*					
	Surrogate: d3-N-MeFOSAA	*68.5 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*54.7 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*77.5 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*76.7 %*			*25-200*					
	Surrogate: M9PFNA	*81.0 %*			*25-150*					

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	NELAC-NY10854,NJDEP		
319-85-7	beta-BHC	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		mg/kg dry	0.210	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
12789-03-6	* Chlordane, total	ND		mg/kg dry	0.0420	5	EPA 8081B	02/07/2022 11:57	02/10/2022 12:46	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*41.2 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:19	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:19	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:19	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:19	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:19	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:19	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:19	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0212	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:19	BJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*58.5 %*	*30-120*

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.0 %*			*30-120*					

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.130	1	EPA 8151A	02/10/2022 07:49	02/11/2022 14:23	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.130	1	EPA 8151A	02/10/2022 07:49	02/11/2022 14:23	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
94-75-7	2,4-D	ND		mg/kg dry	0.130	1	EPA 8151A	02/10/2022 07:49	02/11/2022 14:23	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*71.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**13500**		mg/kg dry	6.38	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-36-0	Antimony	ND		mg/kg dry	3.19	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	Arsenic	ND		mg/kg dry	1.92	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**44.9**		mg/kg dry	3.19	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/kg dry	0.064	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/kg dry	0.383	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**2070**	B	mg/kg dry	6.38	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**17.8**		mg/kg dry	0.638	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**6.28**		mg/kg dry	0.511	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**12.2**		mg/kg dry	2.55	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**16200**		mg/kg dry	31.9	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**29.1**		mg/kg dry	0.638	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**2240**		mg/kg dry	6.38	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**181**		mg/kg dry	0.638	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**15.6**		mg/kg dry	1.28	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**1210**	B	mg/kg dry	6.38	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	3.19	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.638	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**214**		mg/kg dry	63.8	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/kg dry	3.19	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**24.3**		mg/kg dry	1.28	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**31.6**		mg/kg dry	3.19	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:44	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.692**		mg/kg dry	0.0383	1	EPA 7473	02/09/2022 15:08	02/09/2022 16:18	BR
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.638	1	EPA 7196A	02/07/2022 09:15	02/07/2022 16:12	JAG
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 016_LSB-1_4-6 **York Sample ID:** 22B0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 8:40 am	02/04/2022

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**17.8**		mg/kg	0.500	1	Calculation	02/11/2022 16:20	02/11/2022 18:09	PAM
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.638	1	EPA 9014/9010C	02/08/2022 15:34	02/08/2022 21:30	LRW
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**78.3**		%	0.100	1	SM 2540G	02/07/2022 13:49	02/08/2022 12:48	MEW
							Certifications: CTDOH			

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.042	0.084	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
78-93-3	**2-Butanone**	**0.011**		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**0.033**		mg/kg dry	0.0042	0.0084	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0042	0.0084	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0042	0.0084	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0042	0.0084	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0063	0.013	1	EPA 8260C	02/07/2022 06:57	02/08/2022 06:19	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*114 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*116 %*	*76-130*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		mg/kg dry	0.195	0.390	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		mg/kg dry	0.195	0.390	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	**Benzo(a)anthracene**	**0.0623**	J	mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**0.0716**	J	mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**0.0615**	J	mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**0.0599**	J	mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**0.0654**	J	mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**0.149**		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**0.0747**	J	mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**0.113**		mg/kg dry	0.0488	0.0974	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		mg/kg dry	0.195	0.390	2	EPA 8270D	02/07/2022 12:10	02/10/2022 12:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*81.1 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*75.4 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*80.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*63.9 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*78.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*63.4 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.7	1	EPA 8270D SIM	02/09/2022 12:57	02/11/2022 17:52	KH
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.0 %*	*39-127.5*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.297	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:09	WL
							Certifications:			
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.297	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:09	WL
							Certifications:			
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.297	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:09	WL
							Certifications:			
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.297	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:09	WL
							Certifications:			
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.297	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:09	WL
							Certifications:			

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:09	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*83.9 %*	*25-150*
Surrogate: M5PFHxA	*93.3 %*	*25-150*
Surrogate: M4PFHpA	*78.1 %*	*25-150*
Surrogate: M3PFHxS	*103 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*86.4 %*	*25-150*
Surrogate: M6PFDA	*76.4 %*	*25-150*
Surrogate: M7PFUdA	*74.6 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*53.5 %*	*25-150*
Surrogate: M2PFTeDA	*60.7 %*	*10-150*

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*82.3 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*84.3 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*82.4 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*57.3 %*			*10-150*					
	Surrogate: d3-N-MeFOSAA	*77.6 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*72.5 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*91.2 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*70.8 %*			*25-200*					
	Surrogate: M9PFNA	*89.8 %*			*25-150*					

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	NELAC-NY10854,NJDEP		
319-85-7	beta-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		mg/kg dry	0.193	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
12789-03-6	* Chlordane, total	ND		mg/kg dry	0.0385	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:03	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.9 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0195	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:33	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:33	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:33	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:33	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:33	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:33	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:33	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0195	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:33	BJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.5 %*	*30-120*

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	*Surrogate: Decachlorobiphenyl*	*51.5 %*			*30-120*					

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0239	1	EPA 8151A	02/10/2022 07:49	02/11/2022 14:34	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0239	1	EPA 8151A	02/10/2022 07:49	02/11/2022 14:34	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
94-75-7	2,4-D	ND		mg/kg dry	0.0239	1	EPA 8151A	02/10/2022 07:49	02/11/2022 14:34	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*66.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9130**		mg/kg dry	6.01	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-36-0	**Antimony**	**19.1**		mg/kg dry	3.01	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**32.3**		mg/kg dry	1.80	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**96.3**		mg/kg dry	3.01	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/kg dry	0.060	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	**Cadmium**	**1.52**		mg/kg dry	0.361	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**9880**	B	mg/kg dry	6.01	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**38.6**		mg/kg dry	0.601	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**27.2**		mg/kg dry	0.481	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**200**		mg/kg dry	2.41	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**176000**		mg/kg dry	301	10	EPA 6010D	02/08/2022 17:26	02/10/2022 13:46	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**131**		mg/kg dry	0.601	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**2090**		mg/kg dry	6.01	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**1080**		mg/kg dry	0.601	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**34.4**		mg/kg dry	1.20	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**686**	B	mg/kg dry	6.01	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	3.01	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.601	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**132**		mg/kg dry	60.1	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	**Thallium**	**29.6**		mg/kg dry	3.01	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**112**		mg/kg dry	1.20	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**75.4**		mg/kg dry	3.01	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:47	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.163**		mg/kg dry	0.0361	1	EPA 7473	02/09/2022 15:08	02/09/2022 17:59	BR
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.601	1	EPA 7196A	02/07/2022 09:15	02/07/2022 16:12	JAG
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 022_LSB-6_8-10 **York Sample ID:** 22B0234-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 11:25 am	02/04/2022

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* **Chromium, Trivalent**	**38.6**		mg/kg	0.500	1	Calculation	02/11/2022 16:20	02/11/2022 18:09	PAM
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.601	1	EPA 9014/9010C	02/08/2022 15:34	02/08/2022 21:30	LRW
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* **% Solids**	**83.1**		%	0.100	1	SM 2540G	02/07/2022 13:49	02/08/2022 12:48	MEW
							Certifications: CTDOH			

Sample Information

Client Sample ID: 023_LSB-5_4-7 **York Sample ID:** 22B0234-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:30 pm	02/04/2022

Semivolatiles, 8270 PAH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	**Acenaphthene**	**0.148**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	**Acenaphthylene**	**0.0997**	J	mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**0.449**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
56-55-3	**Benzo(a)anthracene**	**1.61**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**1.49**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**1.25**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	**Benzo(g,h,i)perylene**	**1.19**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**1.23**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**1.48**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**0.265**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**3.17**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**0.130**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.45**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	**Phenanthrene**	**1.81**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	**Pyrene**	**2.81**		mg/kg dry	0.0508	0.101	2	EPA 8270D	02/16/2022 09:24	02/17/2022 14:27	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*56.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*49.5 %*	*21-113*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*54.8 %*	*24-116*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 023_LSB-5_4-7 **York Sample ID:** 22B0234-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:30 pm	02/04/2022

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7430**		mg/kg dry	6.10	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-36-0	**Antimony**	**3.82**		mg/kg dry	3.05	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**11.7**		mg/kg dry	1.83	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**1140**		mg/kg dry	3.05	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/kg dry	0.061	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	**Cadmium**	**0.912**		mg/kg dry	0.366	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**23600**	B	mg/kg dry	6.10	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**19.0**		mg/kg dry	0.610	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**9.72**		mg/kg dry	0.488	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**378**		mg/kg dry	2.44	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**27400**		mg/kg dry	30.5	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**741**		mg/kg dry	0.610	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**3460**		mg/kg dry	6.10	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**359**		mg/kg dry	0.610	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**37.8**		mg/kg dry	1.22	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**1110**		mg/kg dry	6.10	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	3.05	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.610	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**303**		mg/kg dry	61.0	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/kg dry	3.05	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**23.5**		mg/kg dry	1.22	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**625**	B	mg/kg dry	3.05	1	EPA 6010D	02/16/2022 16:15	02/17/2022 13:50	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 023_LSB-5_4-7 **York Sample ID:** 22B0234-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:30 pm	02/04/2022

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.25**		mg/kg dry	0.0366	1	EPA 7473	02/17/2022 11:44	02/17/2022 13:04	BR
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**82.0**		%	0.100	1	SM 2540G	02/16/2022 17:46	02/17/2022 09:02	TJA
							Certifications: CTDOH			

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.056	0.11	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
78-93-3	**2-Butanone**	**0.014**		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**0.067**		mg/kg dry	0.0056	0.011	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0056	0.011	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	**Methyl acetate**	**0.0040**	J	mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	**Methylene chloride**	**0.0069**	J	mg/kg dry	0.0056	0.011	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0056	0.011	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0084	0.017	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:16	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.3 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*96.8 %*	*76-130*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0936	0.187	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0936	0.187	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0936	0.187	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0936	0.187	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0936	0.187	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0936	0.187	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0936	0.187	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0936	0.187	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		mg/kg dry	0.187	0.375	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		mg/kg dry	0.187	0.375	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		mg/kg dry	0.0936	0.187	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**0.0636**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**0.0733**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**0.0621**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		mg/kg dry	0.187	0.375	2	EPA 8270D	02/07/2022 12:10	02/10/2022 11:26	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*89.0 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*80.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*93.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*68.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*89.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.0 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	02/09/2022 12:57	02/11/2022 18:09	KH
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*74.0 %*	*39-127.5*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.271	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:21	WL
							Certifications:			
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.271	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:21	WL
							Certifications:			
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.271	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:21	WL
							Certifications:			
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.271	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:21	WL
							Certifications:			
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.271	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:21	WL
							Certifications:			

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.271	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:21	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*75.1 %*	*25-150*
Surrogate: M5PFHxA	*81.9 %*	*25-150*
Surrogate: M4PFHpA	*77.0 %*	*25-150*
Surrogate: M3PFHxS	*91.2 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*80.7 %*	*25-150*
Surrogate: M6PFDA	*70.0 %*	*25-150*
Surrogate: M7PFUdA	*63.2 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*65.8 %*	*25-150*
Surrogate: M2PFTeDA	*47.0 %*	*10-150*

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*79.2 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*77.7 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*81.9 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*55.9 %*			*10-150*					
	Surrogate: d3-N-MeFOSAA	*64.3 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*83.2 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*69.4 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*68.1 %*			*25-200*					
	Surrogate: M9PFNA	*86.8 %*			*25-150*					

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	NELAC-NY10854,NJDEP		
319-85-7	beta-BHC	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		mg/kg dry	0.188	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
12789-03-6	* Chlordane, total	ND		mg/kg dry	0.0377	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:20	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*56.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.5 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	**Aroclor 1016**	**0.0246**		mg/kg dry	0.0190	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:46	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0190	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:46	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0190	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:46	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0190	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:46	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0190	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:46	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0190	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:46	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0190	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:46	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
1336-36-3	*** Total PCBs**	**0.0246**		mg/kg dry	0.0190	1	EPA 8082A	02/07/2022 11:57	02/08/2022 19:46	BJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.0 %*	*30-120*

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.0 %*			*30-120*					

Herbicides, 8151 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0229	1	EPA 8151A	02/08/2022 13:32	02/09/2022 14:20	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0229	1	EPA 8151A	02/08/2022 13:32	02/09/2022 14:20	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
94-75-7	2,4-D	ND		mg/kg dry	0.0229	1	EPA 8151A	02/08/2022 13:32	02/09/2022 14:20	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*53.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8640**		mg/kg dry	5.74	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-36-0	Antimony	ND		mg/kg dry	2.87	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	Arsenic	ND		mg/kg dry	1.72	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**52.3**		mg/kg dry	2.87	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/kg dry	0.345	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**8310**	B	mg/kg dry	5.74	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**16.0**		mg/kg dry	0.574	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**7.33**		mg/kg dry	0.459	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**41.0**		mg/kg dry	2.30	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**19400**		mg/kg dry	28.7	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**36.0**		mg/kg dry	0.574	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**2380**		mg/kg dry	5.74	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**487**		mg/kg dry	0.574	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**16.8**		mg/kg dry	1.15	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1060**	B	mg/kg dry	5.74	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.87	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.574	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**138**		mg/kg dry	57.4	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.87	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**27.0**		mg/kg dry	1.15	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**43.9**		mg/kg dry	2.87	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:49	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0955**		mg/kg dry	0.0345	1	EPA 7473	02/09/2022 15:08	02/09/2022 18:07	BR
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.574	1	EPA 7196A	02/07/2022 09:15	02/07/2022 16:12	JAG
							Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP			

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 025_LSB-5_15-17 **York Sample ID:** 22B0234-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 1:45 pm	02/04/2022

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	16.0		mg/kg	0.500	1	Calculation	02/11/2022 16:20	02/11/2022 18:09	PAM
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.574	1	EPA 9014/9010C	02/08/2022 15:34	02/08/2022 21:30	LRW
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.1		%	0.100	1	SM 2540G	02/07/2022 13:49	02/08/2022 12:48	MEW
							Certifications: CTDOH			

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.042	0.084	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
78-93-3	2-Butanone	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	Acetone	ND		mg/kg dry	0.0042	0.0084	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0042	0.0084	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	**Methylene chloride**	**0.0080**	J	mg/kg dry	0.0042	0.0084	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0042	0.0084	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0063	0.013	1	EPA 8260C	02/08/2022 06:07	02/09/2022 06:44	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.8 %*	*76-130*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.466	0.932	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.466	0.932	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.466	0.932	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	**2-Methylnaphthalene**	**0.772**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.466	0.932	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.466	0.932	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.466	0.932	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.466	0.932	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.466	0.932	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	**Acenaphthene**	**4.55**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	**Acenaphthylene**	**1.38**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		mg/kg dry	0.934	1.87	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**6.90**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		mg/kg dry	0.934	1.87	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	**Benzo(a)anthracene**	**11.6**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**9.58**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**7.91**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	**Benzo(g,h,i)perylene**	**3.89**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**7.80**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		mg/kg dry	0.466	0.932	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	**Carbazole**	**3.45**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**11.7**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**0.790**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**34.0**		mg/kg dry	2.34	4.66	100	EPA 8270D	02/07/2022 12:10	02/10/2022 18:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**3.94**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.42**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**1.57**		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**23.8**		mg/kg dry	2.34	4.66	100	EPA 8270D	02/07/2022 12:10	02/10/2022 18:46	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		mg/kg dry	0.234	0.466	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**18.3**		mg/kg dry	2.34	4.66	100	EPA 8270D	02/07/2022 12:10	02/10/2022 18:46	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		mg/kg dry	0.934	1.87	10	EPA 8270D	02/07/2022 12:10	02/10/2022 11:56	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*89.6 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*83.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*88.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*67.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*75.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*68.0 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.4	1	EPA 8270D SIM	02/09/2022 12:57	02/11/2022 18:26	KH
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*70.0 %*	*39-127.5*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.280	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:34	WL
							Certifications:			
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.280	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:34	WL
							Certifications:			
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.280	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:34	WL
							Certifications:			
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.280	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:34	WL
							Certifications:			
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**0.483**		ug/kg dry	0.280	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:34	WL
							Certifications:			

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.280	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:34	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*83.8 %*	*25-150*
Surrogate: M5PFHxA	*90.9 %*	*25-150*
Surrogate: M4PFHpA	*76.9 %*	*25-150*
Surrogate: M3PFHxS	*90.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*86.4 %*	*25-150*
Surrogate: M6PFDA	*73.3 %*	*25-150*
Surrogate: M7PFUdA	*74.4 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*67.4 %*	*25-150*
Surrogate: M2PFTeDA	*50.3 %*	*10-150*

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*85.2 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*85.0 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*84.6 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.6 %*			*10-150*					
	Surrogate: d3-N-MeFOSAA	*71.2 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*65.1 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*71.5 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*75.2 %*			*25-200*					
	Surrogate: M9PFNA	*86.2 %*			*25-150*					

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	NELAC-NY10854,NJDEP		
319-85-7	beta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		mg/kg dry	0.185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
12789-03-6	* Chlordane, total	ND		mg/kg dry	0.0369	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:37	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*40.7 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:00	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:00	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:00	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:00	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:00	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:00	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:00	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:00	BJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*42.5 %*	*30-120*

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	*Surrogate: Decachlorobiphenyl*	*31.0 %*			*30-120*					

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0224	1	EPA 8151A	02/08/2022 13:32	02/09/2022 15:56	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0224	1	EPA 8151A	02/08/2022 13:32	02/09/2022 15:56	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
94-75-7	2,4-D	ND		mg/kg dry	0.0224	1	EPA 8151A	02/08/2022 13:32	02/09/2022 15:56	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*55.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11000**		mg/kg dry	5.69	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-36-0	Antimony	ND		mg/kg dry	2.84	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	Arsenic	ND		mg/kg dry	1.71	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**73.7**		mg/kg dry	2.84	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/kg dry	0.341	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**3510**	B	mg/kg dry	5.69	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**20.4**		mg/kg dry	0.569	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**8.22**		mg/kg dry	0.455	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**37.0**		mg/kg dry	2.27	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**19900**		mg/kg dry	28.4	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**87.6**		mg/kg dry	0.569	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**2470**		mg/kg dry	5.69	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**308**		mg/kg dry	0.569	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**19.5**		mg/kg dry	1.14	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**1260**	B	mg/kg dry	5.69	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	2.84	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.569	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**301**		mg/kg dry	56.9	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/kg dry	2.84	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**30.9**		mg/kg dry	1.14	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**85.4**		mg/kg dry	2.84	1	EPA 6010D	02/08/2022 17:26	02/09/2022 21:58	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.556**		mg/kg dry	0.0341	1	EPA 7473	02/09/2022 15:08	02/09/2022 18:17	BR
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.569	1	EPA 7196A	02/07/2022 09:15	02/07/2022 16:12	JAG
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 026_LSB-7_2-4 **York Sample ID:** 22B0234-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:30 pm	02/04/2022

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	20.4		mg/kg	0.500	1	Calculation	02/11/2022 16:20	02/11/2022 18:09	PAM
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.569	1	EPA 9014/9010C	02/08/2022 15:34	02/08/2022 21:30	LRW
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.9		%	0.100	1	SM 2540G	02/07/2022 13:49	02/08/2022 12:48	MEW
							Certifications: CTDOH			

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.066	0.13	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
78-93-3	2-Butanone	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	Acetone	ND		mg/kg dry	0.0066	0.013	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0066	0.013	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0066	0.013	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0066	0.013	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0033	0.0066	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0099	0.020	1	EPA 8260C	02/08/2022 06:07	02/09/2022 08:07	BMC
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*110 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*96.4 %*	*76-130*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.469	0.938	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.469	0.938	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.469	0.938	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	**2-Methylnaphthalene**	**1.81**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.469	0.938	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.469	0.938	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.469	0.938	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.469	0.938	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.469	0.938	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	**Acenaphthene**	**2.75**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	**Acenaphthylene**	**0.413**	J	mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		mg/kg dry	0.940	1.88	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**5.14**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		mg/kg dry	0.940	1.88	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	**Benzo(a)anthracene**	**7.76**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**8.35**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**5.93**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	**Benzo(g,h,i)perylene**	**3.72**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**5.92**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

Semivolatiles, 8270 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		mg/kg dry	0.469	0.938	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	**Carbazole**	**2.31**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	**Chrysene**	**7.86**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**1.27**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**15.1**		mg/kg dry	2.35	4.69	100	EPA 8270D	02/07/2022 12:10	02/10/2022 19:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	**Fluorene**	**3.66**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.14**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	**Naphthalene**	**5.01**		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**15.7**		mg/kg dry	2.35	4.69	100	EPA 8270D	02/07/2022 12:10	02/10/2022 19:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		mg/kg dry	0.235	0.469	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**9.72**		mg/kg dry	2.35	4.69	100	EPA 8270D	02/07/2022 12:10	02/10/2022 19:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		mg/kg dry	0.940	1.88	10	EPA 8270D	02/07/2022 12:10	02/10/2022 12:26	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*111 %*	S-08	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*114 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*112 %*	S-08	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*89.2 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*88.6 %*		*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*90.0 %*		*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	02/09/2022 12:57	02/11/2022 18:43	KH
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.0 %*	*39-127.5*

PFAS, NYSDEC Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.268	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:46	WL
							Certifications:			
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.268	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:46	WL
							Certifications:			
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.268	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:46	WL
							Certifications:			
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.268	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:46	WL
							Certifications:			
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**0.336**		ug/kg dry	0.268	1	EPA 537m	02/08/2022 11:34	02/10/2022 16:46	WL
							Certifications:			

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
2355-31-9	* N-MeFOSAA	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
2991-50-6	* N-EtFOSAA	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.268	1	EPA 537m Certifications:	02/08/2022 11:34	02/10/2022 16:46	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*76.0 %*	*25-150*
Surrogate: M5PFHxA	*80.1 %*	*25-150*
Surrogate: M4PFHpA	*77.7 %*	*25-150*
Surrogate: M3PFHxS	*77.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*85.1 %*	*25-150*
Surrogate: M6PFDA	*75.8 %*	*25-150*
Surrogate: M7PFUdA	*59.8 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*66.0 %*	*25-150*
Surrogate: M2PFTeDA	*43.6 %*	*10-150*

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*75.2 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*75.1 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*80.1 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*57.2 %*			*10-150*					
	Surrogate: d3-N-MeFOSAA	*64.0 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*57.6 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*75.2 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*53.8 %*			*25-200*					
	Surrogate: M9PFNA	*88.0 %*			*25-150*					

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	NELAC-NY10854,NJDEP		
319-85-7	beta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		mg/kg dry	0.185	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
12789-03-6	* Chlordane, total	ND		mg/kg dry	0.0369	5	EPA 8081B	02/07/2022 11:57	02/10/2022 13:54	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*39.2 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:14	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:14	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:14	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:14	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:14	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:14	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:14	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	1	EPA 8082A	02/07/2022 11:57	02/08/2022 20:14	BJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*59.0 %*	*30-120*

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.0 %*			*30-120*					

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0224	1	EPA 8151A	02/08/2022 13:32	02/09/2022 16:06	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0224	1	EPA 8151A	02/08/2022 13:32	02/09/2022 16:06	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
94-75-7	2,4-D	ND		mg/kg dry	0.0224	1	EPA 8151A	02/08/2022 13:32	02/09/2022 16:06	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*62.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9610**		mg/kg dry	5.69	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-36-0	**Antimony**	**3.04**		mg/kg dry	2.84	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	Arsenic	ND		mg/kg dry	1.71	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**85.2**		mg/kg dry	2.84	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	**Cadmium**	**0.362**		mg/kg dry	0.341	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**3870**	B	mg/kg dry	5.69	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**22.6**		mg/kg dry	0.569	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**9.07**		mg/kg dry	0.455	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**54.0**		mg/kg dry	2.27	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**19600**		mg/kg dry	28.4	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**107**		mg/kg dry	0.569	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**2840**		mg/kg dry	5.69	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**353**		mg/kg dry	0.569	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**22.9**		mg/kg dry	1.14	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**1320**	B	mg/kg dry	5.69	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	2.84	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.569	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**357**		mg/kg dry	56.9	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/kg dry	2.84	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**30.3**		mg/kg dry	1.14	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**97.9**		mg/kg dry	2.84	1	EPA 6010D	02/08/2022 17:26	02/09/2022 22:01	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.469**		mg/kg dry	0.0341	1	EPA 7473	02/09/2022 15:08	02/09/2022 18:30	BR
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.569	1	EPA 7196A	02/07/2022 09:15	02/07/2022 16:12	JAG
							Certifications:	NJDEP,CTDOH,NELAC-NY10854,PADEP		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 029_DUP-1 **York Sample ID:** 22B0234-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Soil	February 4, 2022 2:45 pm	02/04/2022

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* **Chromium, Trivalent**	**22.6**		mg/kg	0.500	1	Calculation	02/11/2022 16:20	02/11/2022 18:09	PAM
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.569	1	EPA 9014/9010C	02/08/2022 15:34	02/08/2022 21:30	LRW
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* **% Solids**	**87.9**		%	0.100	1	SM 2540G	02/07/2022 13:49	02/08/2022 12:48	MEW
							Certifications: CTDOH			

Sample Information

Client Sample ID: 031_EB-3 **York Sample ID:** 22B0234-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 3:05 pm	02/04/2022

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	02/10/2022 07:43	02/14/2022 20:35	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*84.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL

Sample Information

Client Sample ID: 031_EB-3 **York Sample ID:** 22B0234-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0234	100964201	Water	February 4, 2022 3:05 pm	02/04/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.63	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/07/2022 10:45	02/07/2022 19:38	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*88.3 %*	*25-150*
Surrogate: M5PFHxA	*97.5 %*	*25-150*
Surrogate: M4PFHpA	*93.1 %*	*25-150*
Surrogate: M3PFHxS	*97.0 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*94.8 %*	*25-150*
Surrogate: M6PFDA	*98.6 %*	*25-150*
Surrogate: M7PFUdA	*84.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*68.5 %*	*25-150*
Surrogate: M2PFTeDA	*50.2 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*93.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*96.0 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*92.4 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*36.9 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*74.1 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*70.8 %*	*25-150*
Surrogate: M2-6:2 FTS	*99.2 %*	*25-200*
Surrogate: M2-8:2 FTS	*115 %*	*25-200*
Surrogate: M9PFNA	*105 %*	*25-150*

Analytical Batch Summary

Batch ID: BB21448 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-03	014_FB-1	02/04/22
BB21448-BLK1	Blank	02/04/22
BB21448-BS1	LCS	02/04/22
BB21448-DUP1	Duplicate	02/04/22
BB21448-MS1	Matrix Spike	02/04/22

Batch ID: BB21475 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-05	016_LSB-1_4-6	02/07/22
22B0234-10	022_LSB-6_8-10	02/07/22
22B0234-13	025_LSB-5_15-17	02/07/22
22B0234-14	026_LSB-7_2-4	02/07/22
22B0234-17	029_DUP-1	02/07/22
BB21475-BLK1	Blank	02/07/22
BB21475-DUP1	Duplicate	02/07/22
BB21475-MS1	Matrix Spike	02/07/22
BB21475-SRM1	Reference	02/07/22

Batch ID: BB21486 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** WEL

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-02	013_EB-2	02/07/22
22B0234-03	014_FB-1	02/07/22
22B0234-18	031_EB-3	02/07/22
BB21486-BLK1	Blank	02/07/22
BB21486-BS1	LCS	02/07/22
BB21486-BSD1	LCS Dup	02/07/22

Batch ID: BB21494 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-05	016_LSB-1_4-6	02/07/22
22B0234-05	016_LSB-1_4-6	02/07/22
22B0234-10	022_LSB-6_8-10	02/07/22
22B0234-10	022_LSB-6_8-10	02/07/22
22B0234-13	025_LSB-5_15-17	02/07/22
22B0234-13	025_LSB-5_15-17	02/07/22
22B0234-14	026_LSB-7_2-4	02/07/22
22B0234-14	026_LSB-7_2-4	02/07/22
22B0234-17	029_DUP-1	02/07/22
22B0234-17	029_DUP-1	02/07/22
BB21494-BLK1	Blank	02/07/22
BB21494-BLK2	Blank	02/07/22

BB21494-BS1	LCS	02/07/22
BB21494-BS2	LCS	02/07/22
BB21494-MS2	Matrix Spike	02/07/22
BB21494-MSD2	Matrix Spike Dup	02/07/22

Batch ID: BB21496 **Preparation Method:** EPA 3546 SVOA **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-05	016_LSB-1_4-6	02/07/22
22B0234-10	022_LSB-6_8-10	02/07/22
22B0234-13	025_LSB-5_15-17	02/07/22
22B0234-14	026_LSB-7_2-4	02/07/22
22B0234-14RE1	026_LSB-7_2-4	02/07/22
22B0234-17	029_DUP-1	02/07/22
22B0234-17RE1	029_DUP-1	02/07/22
BB21496-BLK1	Blank	02/07/22
BB21496-BS1	LCS	02/07/22
BB21496-MS1	Matrix Spike	02/07/22
BB21496-MSD1	Matrix Spike Dup	02/07/22

Batch ID: BB21525 **Preparation Method:** EPA 5030B **Prepared By:** JTG

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-01	012_TB-2	02/07/22
BB21525-BLK1	Blank	02/07/22
BB21525-BS1	LCS	02/07/22
BB21525-BSD1	LCS Dup	02/07/22

Batch ID: BB21531 **Preparation Method:** EPA 5035A **Prepared By:** BMC

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-05	016_LSB-1_4-6	02/07/22
22B0234-10	022_LSB-6_8-10	02/07/22
BB21531-BLK1	Blank	02/07/22
BB21531-BS1	LCS	02/07/22
BB21531-BSD1	LCS Dup	02/07/22

Batch ID: BB21562 **Preparation Method:** Analysis Preparation **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-03	014_FB-1	02/08/22
BB21562-BLK1	Blank	02/08/22
BB21562-BS1	LCS	02/08/22
BB21562-DUP1	Duplicate	02/08/22
BB21562-MS1	Matrix Spike	02/08/22

Batch ID: BB21569 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** WEL

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-05	016_LSB-1_4-6	02/08/22
22B0234-10	022_LSB-6_8-10	02/08/22
22B0234-13	025_LSB-5_15-17	02/08/22
22B0234-14	026_LSB-7_2-4	02/08/22
22B0234-17	029_DUP-1	02/08/22
BB21569-BLK1	Blank	02/08/22
BB21569-BS1	LCS	02/08/22
BB21569-MS1	Matrix Spike	02/08/22
BB21569-MSD1	Matrix Spike Dup	02/08/22

Batch ID: BB21581 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** GMA

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-03	014_FB-1	02/08/22
22B0234-03	014_FB-1	02/08/22
BB21581-BLK1	Blank	02/08/22
BB21581-BLK2	Blank	02/08/22
BB21581-BLK2	Blank	02/08/22
BB21581-BS1	LCS	02/08/22
BB21581-BS2	LCS	02/08/22
BB21581-BS2	LCS	02/08/22
BB21581-BSD1	LCS Dup	02/08/22
BB21581-BSD2	LCS Dup	02/08/22
BB21581-BSD2	LCS Dup	02/08/22

Batch ID: BB21582 **Preparation Method:** EPA 3550C/8151A **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-13	025_LSB-5_15-17	02/08/22
22B0234-14	026_LSB-7_2-4	02/08/22
22B0234-17	029_DUP-1	02/08/22
BB21582-BLK1	Blank	02/08/22
BB21582-BS1	LCS	02/08/22
BB21582-MS1	Matrix Spike	02/08/22
BB21582-MSD1	Matrix Spike Dup	02/08/22

Batch ID: BB21591 **Preparation Method:** EPA 5030B **Prepared By:** JTG

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-03	014_FB-1	02/08/22
BB21591-BLK1	Blank	02/08/22
BB21591-BS1	LCS	02/08/22
BB21591-BSD1	LCS Dup	02/08/22

Batch ID: BB21595 **Preparation Method:** EPA 3015A **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date

22B0234-03	014_FB-1	02/08/22
BB21595-BLK1	Blank	02/08/22
BB21595-BS1	LCS	02/08/22
BB21595-DUP1	Duplicate	02/08/22
BB21595-MS1	Matrix Spike	02/08/22
BB21595-PS1	Post Spike	02/08/22

Batch ID: BB21604 **Preparation Method:** Analysis Preparation Soil **Prepared By:** LRW

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-05	016_LSB-1_4-6	02/08/22
22B0234-10	022_LSB-6_8-10	02/08/22
22B0234-13	025_LSB-5_15-17	02/08/22
22B0234-14	026_LSB-7_2-4	02/08/22
22B0234-17	029_DUP-1	02/08/22
BB21604-BLK1	Blank	02/08/22
BB21604-DUP1	Duplicate	02/08/22
BB21604-MS1	Matrix Spike	02/08/22
BB21604-SRM1	Reference	02/08/22

Batch ID: BB21610 **Preparation Method:** EPA 3050B **Prepared By:** K T

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-05	016_LSB-1_4-6	02/08/22
22B0234-10	022_LSB-6_8-10	02/08/22
22B0234-10RE1	022_LSB-6_8-10	02/08/22
22B0234-13	025_LSB-5_15-17	02/08/22
22B0234-14	026_LSB-7_2-4	02/08/22
22B0234-17	029_DUP-1	02/08/22
BB21610-BLK1	Blank	02/08/22
BB21610-DUP1	Duplicate	02/08/22
BB21610-MS1	Matrix Spike	02/08/22
BB21610-PS1	Post Spike	02/08/22
BB21610-SRM1	Reference	02/08/22

Batch ID: BB21619 **Preparation Method:** EPA SW846-7470A **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-03	014_FB-1	02/08/22
BB21619-BLK1	Blank	02/08/22
BB21619-BS1	LCS	02/08/22
BB21619-BS2	LCS	02/08/22

Batch ID: BB21640 **Preparation Method:** EPA 3015A **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-03	014_FB-1	02/09/22
BB21640-BLK1	Blank	02/09/22
BB21640-BS1	LCS	02/09/22

BB21640-DUP1	Duplicate	02/09/22
BB21640-MS1	Matrix Spike	02/09/22

Batch ID: BB21643 **Preparation Method:** EPA 8151A **Prepared By:** FTR

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-03	014_FB-1	02/10/22
BB21643-BLK1	Blank	02/10/22
BB21643-BS1	LCS	02/10/22

Batch ID: BB21656 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-05	016_LSB-1_4-6	02/09/22
22B0234-10	022_LSB-6_8-10	02/09/22
22B0234-13	025_LSB-5_15-17	02/09/22
22B0234-14	026_LSB-7_2-4	02/09/22
22B0234-17	029_DUP-1	02/09/22
BB21656-BLK1	Blank	02/09/22
BB21656-BS1	LCS	02/09/22
BB21656-MS1	Matrix Spike	02/09/22
BB21656-MSD1	Matrix Spike Dup	02/09/22

Batch ID: BB21663 **Preparation Method:** EPA 5035A **Prepared By:** BMC

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-13	025_LSB-5_15-17	02/08/22
22B0234-14	026_LSB-7_2-4	02/08/22
22B0234-17	029_DUP-1	02/08/22
BB21663-BLK1	Blank	02/08/22
BB21663-BLK2	Blank	02/08/22
BB21663-BS1	LCS	02/08/22
BB21663-BSD1	LCS Dup	02/08/22

Batch ID: BB21670 **Preparation Method:** EPA 7473 soil **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-05	016_LSB-1_4-6	02/09/22
22B0234-10	022_LSB-6_8-10	02/09/22
22B0234-13	025_LSB-5_15-17	02/09/22
22B0234-14	026_LSB-7_2-4	02/09/22
22B0234-17	029_DUP-1	02/09/22
BB21670-BLK1	Blank	02/09/22
BB21670-DUP1	Duplicate	02/09/22
BB21670-MS1	Matrix Spike	02/09/22
BB21670-SRM1	Reference	02/09/22

Batch ID: BB21707 **Preparation Method:** EPA 3535A **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-02	013_EB-2	02/10/22
22B0234-03	014_FB-1	02/10/22
22B0234-18	031_EB-3	02/10/22
BB21707-BLK1	Blank	02/10/22
BB21707-BS1	LCS	02/10/22
BB21707-MS1	Matrix Spike	02/10/22
BB21707-MSD1	Matrix Spike Dup	02/10/22

Batch ID: BB21710 **Preparation Method:** EPA 3550C/8151A **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-05	016_LSB-1_4-6	02/10/22
22B0234-10	022_LSB-6_8-10	02/10/22
BB21710-BLK1	Blank	02/10/22
BB21710-BS1	LCS	02/10/22
BB21710-MS1	Matrix Spike	02/10/22
BB21710-MSD1	Matrix Spike Dup	02/10/22

Batch ID: BB21747 **Preparation Method:** EPA 3510C **Prepared By:** GMA

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-03	014_FB-1	02/10/22
BB21747-BLK1	Blank	02/10/22
BB21747-BLK2	Blank	02/10/22
BB21747-BS1	LCS	02/10/22
BB21747-BS2	LCS	02/10/22
BB21747-BSD1	LCS Dup	02/10/22

Batch ID: BB21841 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-05	016_LSB-1_4-6	02/11/22
22B0234-10	022_LSB-6_8-10	02/11/22
22B0234-13	025_LSB-5_15-17	02/11/22
22B0234-14	026_LSB-7_2-4	02/11/22
22B0234-17	029_DUP-1	02/11/22

Batch ID: BB21842 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-03	014_FB-1	02/11/22

Batch ID: BB22042 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date

22B0234-04	015_LSB-1_2-4	02/16/22
22B0234-11	023_LSB-5_4-7	02/16/22

Batch ID: BB22088 **Preparation Method:** EPA 3050B **Prepared By:** S_G

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-04	015_LSB-1_2-4	02/16/22
22B0234-11	023_LSB-5_4-7	02/16/22
BB22088-BLK1	Blank	02/16/22
BB22088-DUP1	Duplicate	02/16/22
BB22088-MS1	Matrix Spike	02/16/22
BB22088-PS1	Post Spike	02/16/22
BB22088-SRM1	Reference	02/16/22

Batch ID: BB22095 **Preparation Method:** % Solids Prep **Prepared By:** MEW

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-04	015_LSB-1_2-4	02/16/22
22B0234-11	023_LSB-5_4-7	02/16/22
BB22095-DUP1	Duplicate	02/16/22

Batch ID: BB22143 **Preparation Method:** EPA 7473 soil **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-04	015_LSB-1_2-4	02/17/22
22B0234-11	023_LSB-5_4-7	02/17/22
BB22143-BLK1	Blank	02/17/22
BB22143-DUP1	Duplicate	02/17/22
BB22143-MS1	Matrix Spike	02/17/22
BB22143-SRM1	Reference	02/17/22

Batch ID: BC10009 **Preparation Method:** % Solids Prep **Prepared By:** MEW

YORK Sample ID	Client Sample ID	Preparation Date
22B0234-05	016_LSB-1_4-6	02/07/22
22B0234-10	022_LSB-6_8-10	02/07/22
22B0234-13	025_LSB-5_15-17	02/07/22
22B0234-14	026_LSB-7_2-4	02/07/22
22B0234-17	029_DUP-1	02/07/22
BC10009-DUP1	Duplicate	02/07/22

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21525 - EPA 5030B											
Blank (BB21525-BLK1) Blank									Prepared & Analyzed: 02/07/2022		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2,2-Dichloropropane	ND	0.500	"								
2-Butanone	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21525 - EPA 5030B											
Blank (BB21525-BLK1) Blank									Prepared & Analyzed: 02/07/2022		
Hexachlorobutadiene	ND	0.500	ug/L								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl acetate	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.4*		*"*	*10.0*		*114*	*79-122*				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21525 - EPA 5030B											
LCS (BB21525-BS1) LCS							Prepared & Analyzed: 02/07/2022				
1,1,1,2-Tetrachloroethane	9.08		ug/L	10.0		90.8	82-126				
1,1,1-Trichloroethane	9.22		"	10.0		92.2	78-136				
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.85		"	10.0		98.5	54-165				
1,1,2-Trichloroethane	8.76		"	10.0		87.6	82-123				
1,1-Dichloroethane	9.87		"	10.0		98.7	82-129				
1,1-Dichloroethylene	10.6		"	10.0		106	68-138				
1,1-Dichloropropylene	9.24		"	10.0		92.4	83-133				
1,2,3-Trichlorobenzene	7.78		"	10.0		77.8	76-136				
1,2,3-Trichloropropane	9.55		"	10.0		95.5	77-128				
1,2,4-Trichlorobenzene	8.12		"	10.0		81.2	76-137				
1,2,4-Trimethylbenzene	10.6		"	10.0		106	82-132				
1,2-Dibromo-3-chloropropane	9.41		"	10.0		94.1	45-147				
1,2-Dibromoethane	8.86		"	10.0		88.6	83-124				
1,2-Dichlorobenzene	9.92		"	10.0		99.2	79-123				
1,2-Dichloroethane	9.48		"	10.0		94.8	73-132				
1,2-Dichloropropane	10.6		"	10.0		106	78-126				
1,3,5-Trimethylbenzene	10.7		"	10.0		107	80-131				
1,3-Dichlorobenzene	9.48		"	10.0		94.8	86-122				
1,3-Dichloropropane	9.13		"	10.0		91.3	81-125				
1,4-Dichlorobenzene	9.66		"	10.0		96.6	85-124				
1,4-Dioxane	216		"	210		103	10-349				
2,2-Dichloropropane	10.1		"	10.0		101	56-150				
2-Butanone	9.33		"	10.0		93.3	49-152				
2-Chlorotoluene	10.8		"	10.0		108	79-130				
2-Hexanone	9.80		"	10.0		98.0	51-146				
4-Chlorotoluene	10.9		"	10.0		109	79-128				
4-Methyl-2-pentanone	9.72		"	10.0		97.2	57-145				
Acetone	8.77		"	10.0		87.7	14-150				
Acrolein	4.75		"	10.0		47.5	10-153				
Acrylonitrile	9.37		"	10.0		93.7	51-150				
Benzene	9.82		"	10.0		98.2	85-126				
Bromobenzene	10.5		"	10.0		105	78-129				
Bromochloromethane	9.91		"	10.0		99.1	77-128				
Bromodichloromethane	9.32		"	10.0		93.2	79-128				
Bromoform	8.08		"	10.0		80.8	78-133				
Bromomethane	2.32		"	10.0		23.2	43-168	Low Bias			
Carbon disulfide	10.2		"	10.0		102	68-146				
Carbon tetrachloride	9.21		"	10.0		92.1	77-141				
Chlorobenzene	9.96		"	10.0		99.6	88-120				
Chloroethane	10.6		"	10.0		106	65-136				
Chloroform	9.56		"	10.0		95.6	82-128				
Chloromethane	9.48		"	10.0		94.8	43-155				
cis-1,2-Dichloroethylene	9.93		"	10.0		99.3	83-129				
cis-1,3-Dichloropropylene	9.52		"	10.0		95.2	80-131				
Cyclohexane	7.45		"	10.0		74.5	63-149				
Dibromochloromethane	8.36		"	10.0		83.6	80-130				
Dibromomethane	9.00		"	10.0		90.0	72-134				
Dichlorodifluoromethane	12.6		"	10.0		126	44-144				
Ethyl Benzene	10.6		"	10.0		106	80-131				
Hexachlorobutadiene	9.51		"	10.0		95.1	67-146				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21525 - EPA 5030B											
LCS (BB21525-BS1) LCS								Prepared & Analyzed: 02/07/2022			
Isopropylbenzene	11.3		ug/L	10.0		113	76-140				
Methyl acetate	9.02		"	10.0		90.2	51-139				
Methyl tert-butyl ether (MTBE)	8.83		"	10.0		88.3	76-135				
Methylcyclohexane	9.92		"	10.0		99.2	72-143				
Methylene chloride	9.69		"	10.0		96.9	55-137				
n-Butylbenzene	11.6		"	10.0		116	79-132				
n-Propylbenzene	11.6		"	10.0		116	78-133				
o-Xylene	10.3		"	10.0		103	78-130				
p- & m- Xylenes	18.2		"	20.0		90.8	77-133				
p-Isopropyltoluene	10.6		"	10.0		106	81-136				
sec-Butylbenzene	10.9		"	10.0		109	79-137				
Styrene	9.93		"	10.0		99.3	67-132				
tert-Butyl alcohol (TBA)	37.7		"	50.0		75.4	25-162				
tert-Butylbenzene	8.58		"	10.0		85.8	77-138				
Tetrachloroethylene	8.72		"	10.0		87.2	82-131				
Toluene	10.1		"	10.0		101	80-127				
trans-1,2-Dichloroethylene	10.1		"	10.0		101	80-132				
trans-1,3-Dichloropropylene	9.20		"	10.0		92.0	78-131				
Trichloroethylene	9.48		"	10.0		94.8	82-128				
Trichlorofluoromethane	10.6		"	10.0		106	67-139				
Vinyl acetate	11.7		"	10.0		117	21-90	High Bias			
Vinyl Chloride	12.5		"	10.0		125	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.82*		*"*	*10.0*		*98.2*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.2*		*"*	*10.0*		*112*	*79-122*				
LCS Dup (BB21525-BSD1) LCS Dup								Prepared & Analyzed: 02/07/2022			
1,1,1,2-Tetrachloroethane	8.78		ug/L	10.0		87.8	82-126		3.36	30	
1,1,1-Trichloroethane	8.67		"	10.0		86.7	78-136		6.15	30	
1,1,2,2-Tetrachloroethane	9.99		"	10.0		99.9	76-129		1.10	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.24		"	10.0		92.4	54-165		6.39	30	
1,1,2-Trichloroethane	8.92		"	10.0		89.2	82-123		1.81	30	
1,1-Dichloroethane	9.28		"	10.0		92.8	82-129		6.16	30	
1,1-Dichloroethylene	9.73		"	10.0		97.3	68-138		8.09	30	
1,1-Dichloropropylene	8.65		"	10.0		86.5	83-133		6.60	30	
1,2,3-Trichlorobenzene	7.82		"	10.0		78.2	76-136		0.513	30	
1,2,3-Trichloropropane	9.54		"	10.0		95.4	77-128		0.105	30	
1,2,4-Trichlorobenzene	7.99		"	10.0		79.9	76-137		1.61	30	
1,2,4-Trimethylbenzene	9.67		"	10.0		96.7	82-132		8.89	30	
1,2-Dibromo-3-chloropropane	10.1		"	10.0		101	45-147		6.68	30	
1,2-Dibromoethane	9.02		"	10.0		90.2	83-124		1.79	30	
1,2-Dichlorobenzene	9.38		"	10.0		93.8	79-123		5.60	30	
1,2-Dichloroethane	9.31		"	10.0		93.1	73-132		1.81	30	
1,2-Dichloropropane	10.2		"	10.0		102	78-126		3.18	30	
1,3,5-Trimethylbenzene	9.72		"	10.0		97.2	80-131		9.69	30	
1,3-Dichlorobenzene	8.77		"	10.0		87.7	86-122		7.78	30	
1,3-Dichloropropane	9.23		"	10.0		92.3	81-125		1.09	30	
1,4-Dichlorobenzene	8.96		"	10.0		89.6	85-124		7.52	30	
1,4-Dioxane	228		"	210		109	10-349		5.52	30	
2,2-Dichloropropane	9.41		"	10.0		94.1	56-150		7.47	30	
2-Butanone	9.41		"	10.0		94.1	49-152		0.854	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21525 - EPA 5030B											
LCS Dup (BB21525-BSD1) LCS Dup								Prepared & Analyzed: 02/07/2022			
2-Chlorotoluene	9.81		ug/L	10.0		98.1	79-130		9.61	30	
2-Hexanone	10.3		"	10.0		103	51-146		4.98	30	
4-Chlorotoluene	9.90		"	10.0		99.0	79-128		9.89	30	
4-Methyl-2-pentanone	10.2		"	10.0		102	57-145		4.62	30	
Acetone	9.43		"	10.0		94.3	14-150		7.25	30	
Acrolein	4.87		"	10.0		48.7	10-153		2.49	30	
Acrylonitrile	9.92		"	10.0		99.2	51-150		5.70	30	
Benzene	9.31		"	10.0		93.1	85-126		5.33	30	
Bromobenzene	9.82		"	10.0		98.2	78-129		6.31	30	
Bromochloromethane	9.64		"	10.0		96.4	77-128		2.76	30	
Bromodichloromethane	9.06		"	10.0		90.6	79-128		2.83	30	
Bromoform	8.24		"	10.0		82.4	78-133		1.96	30	
Bromomethane	2.71		"	10.0		27.1	43-168	Low Bias	15.5	30	
Carbon disulfide	9.29		"	10.0		92.9	68-146		8.85	30	
Carbon tetrachloride	8.66		"	10.0		86.6	77-141		6.16	30	
Chlorobenzene	9.51		"	10.0		95.1	88-120		4.62	30	
Chloroethane	9.64		"	10.0		96.4	65-136		9.30	30	
Chloroform	9.14		"	10.0		91.4	82-128		4.49	30	
Chloromethane	8.11		"	10.0		81.1	43-155		15.6	30	
cis-1,2-Dichloroethylene	9.44		"	10.0		94.4	83-129		5.06	30	
cis-1,3-Dichloropropylene	9.31		"	10.0		93.1	80-131		2.23	30	
Cyclohexane	7.00		"	10.0		70.0	63-149		6.23	30	
Dibromochloromethane	8.36		"	10.0		83.6	80-130		0.00	30	
Dibromomethane	9.10		"	10.0		91.0	72-134		1.10	30	
Dichlorodifluoromethane	10.9		"	10.0		109	44-144		14.0	30	
Ethyl Benzene	10.0		"	10.0		100	80-131		5.52	30	
Hexachlorobutadiene	9.56		"	10.0		95.6	67-146		0.524	30	
Isopropylbenzene	10.2		"	10.0		102	76-140		10.1	30	
Methyl acetate	9.48		"	10.0		94.8	51-139		4.97	30	
Methyl tert-butyl ether (MTBE)	8.96		"	10.0		89.6	76-135		1.46	30	
Methylcyclohexane	9.40		"	10.0		94.0	72-143		5.38	30	
Methylene chloride	9.28		"	10.0		92.8	55-137		4.32	30	
n-Butylbenzene	10.7		"	10.0		107	79-132		8.17	30	
n-Propylbenzene	10.4		"	10.0		104	78-133		10.7	30	
o-Xylene	9.89		"	10.0		98.9	78-130		4.35	30	
p- & m- Xylenes	17.2		"	20.0		85.8	77-133		5.61	30	
p-Isopropyltoluene	9.72		"	10.0		97.2	81-136		8.76	30	
sec-Butylbenzene	9.91		"	10.0		99.1	79-137		9.42	30	
Styrene	9.34		"	10.0		93.4	67-132		6.12	30	
tert-Butyl alcohol (TBA)	42.0		"	50.0		83.9	25-162		10.7	30	
tert-Butylbenzene	7.79		"	10.0		77.9	77-138		9.65	30	
Tetrachloroethylene	8.19		"	10.0		81.9	82-131	Low Bias	6.27	30	
Toluene	9.57		"	10.0		95.7	80-127		4.99	30	
trans-1,2-Dichloroethylene	9.45		"	10.0		94.5	80-132		7.04	30	
trans-1,3-Dichloropropylene	9.13		"	10.0		91.3	78-131		0.764	30	
Trichloroethylene	8.98		"	10.0		89.8	82-128		5.42	30	
Trichlorofluoromethane	9.56		"	10.0		95.6	67-139		9.85	30	
Vinyl acetate	12.3		"	10.0		123	21-90	High Bias	4.93	30	
Vinyl Chloride	10.7		"	10.0		107	58-145		15.4	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21525 - EPA 5030B											
LCS Dup (BB21525-BSD1) LCS Dup									Prepared & Analyzed: 02/07/2022		
Surrogate: SURR: p-Bromofluorobenzene	*10.7*		*ug/L*	*10.0*		*107*	*79-122*				
Batch BB21531 - EPA 5035A											
Blank (BB21531-BLK1) Blank									Prepared: 02/07/2022 Analyzed: 02/08/2022		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,1-Dichloropropylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
2-Chlorotoluene	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Chlorotoluene	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromobenzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21531 - EPA 5035A											
Blank (BB21531-BLK1) Blank									Prepared: 02/07/2022 Analyzed: 02/08/2022		
Dibromochloromethane	ND	0.0050	mg/kg wet								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl acetate	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.6*		*ug/L*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*51.3*		*"*	*50.0*		*103*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.4*		*"*	*50.0*		*103*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21531 - EPA 5035A											
LCS (BB21531-BS1) LCS									Prepared: 02/07/2022 Analyzed: 02/08/2022		
1,1,1,2-Tetrachloroethane	46.8		ug/L	50.0		93.6	75-129				
1,1,1-Trichloroethane	43.9		"	50.0		87.9	71-137				
1,1,2,2-Tetrachloroethane	48.5		"	50.0		97.1	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46.6		"	50.0		93.1	58-146				
1,1,2-Trichloroethane	46.7		"	50.0		93.5	83-123				
1,1-Dichloroethane	44.2		"	50.0		88.4	75-130				
1,1-Dichloroethylene	46.3		"	50.0		92.7	64-137				
1,1-Dichloropropylene	41.0		"	50.0		82.1	77-127				
1,2,3-Trichlorobenzene	46.8		"	50.0		93.6	81-140				
1,2,3-Trichloropropane	48.5		"	50.0		97.0	81-126				
1,2,4-Trichlorobenzene	45.9		"	50.0		91.9	80-141				
1,2,4-Trimethylbenzene	47.8		"	50.0		95.5	84-125				
1,2-Dibromo-3-chloropropane	49.7		"	50.0		99.3	74-142				
1,2-Dibromoethane	48.7		"	50.0		97.4	86-123				
1,2-Dichlorobenzene	47.0		"	50.0		94.0	85-122				
1,2-Dichloroethane	45.2		"	50.0		90.4	71-133				
1,2-Dichloropropane	49.7		"	50.0		99.5	81-122				
1,3,5-Trimethylbenzene	46.9		"	50.0		93.8	82-126				
1,3-Dichlorobenzene	45.5		"	50.0		91.0	84-124				
1,3-Dichloropropane	47.2		"	50.0		94.3	83-123				
1,4-Dichlorobenzene	46.2		"	50.0		92.5	84-124				
1,4-Dioxane	1310		"	1050		125	10-228				
2,2-Dichloropropane	43.0		"	50.0		86.1	67-136				
2-Butanone	44.1		"	50.0		88.2	58-147				
2-Chlorotoluene	47.4		"	50.0		94.9	78-127				
2-Hexanone	50.9		"	50.0		102	70-139				
4-Chlorotoluene	47.3		"	50.0		94.6	79-125				
4-Methyl-2-pentanone	53.7		"	50.0		107	72-132				
Acetone	24.3		"	50.0		48.5	36-155				
Acrolein	25.6		"	50.0		51.2	10-238				
Acrylonitrile	44.0		"	50.0		88.1	66-141				
Benzene	44.6		"	50.0		89.1	77-127				
Bromobenzene	47.1		"	50.0		94.1	77-129				
Bromochloromethane	43.7		"	50.0		87.4	74-129				
Bromodichloromethane	48.5		"	50.0		97.0	81-124				
Bromoform	51.4		"	50.0		103	80-136				
Bromomethane	44.9		"	50.0		89.9	32-177				
Carbon disulfide	48.8		"	50.0		97.6	10-136				
Carbon tetrachloride	45.0		"	50.0		90.0	66-143				
Chlorobenzene	48.4		"	50.0		96.9	86-120				
Chloroethane	43.9		"	50.0		87.9	51-142				
Chloroform	44.8		"	50.0		89.6	76-131				
Chloromethane	49.3		"	50.0		98.6	49-132				
cis-1,2-Dichloroethylene	44.8		"	50.0		89.5	74-132				
cis-1,3-Dichloropropylene	48.2		"	50.0		96.4	81-129				
Cyclohexane	37.6		"	50.0		75.2	70-130				
Dibromochloromethane	48.7		"	50.0		97.4	10-200				
Dibromomethane	47.5		"	50.0		95.0	83-124				
Dichlorodifluoromethane	47.0		"	50.0		94.0	28-158				
Ethyl Benzene	47.9		"	50.0		95.8	84-125				
Hexachlorobutadiene	46.8		"	50.0		93.7	83-133				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21531 - EPA 5035A											
LCS (BB21531-BS1) LCS								Prepared: 02/07/2022 Analyzed: 02/08/2022			
Isopropylbenzene	50.3		ug/L	50.0		101	81-127				
Methyl acetate	44.5		"	50.0		88.9	41-143				
Methyl tert-butyl ether (MTBE)	46.8		"	50.0		93.6	74-131				
Methylcyclohexane	49.8		"	50.0		99.5	70-130				
Methylene chloride	44.5		"	50.0		89.0	57-141				
n-Butylbenzene	45.8		"	50.0		91.5	80-130				
n-Propylbenzene	47.1		"	50.0		94.2	74-136				
o-Xylene	50.1		"	50.0		100	83-123				
p- & m- Xylenes	96.4		"	100		96.4	82-128				
p-Isopropyltoluene	48.2		"	50.0		96.4	85-125				
sec-Butylbenzene	48.2		"	50.0		96.5	83-125				
Styrene	48.1		"	50.0		96.1	86-126				
tert-Butyl alcohol (TBA)	181		"	250		72.3	70-130				
tert-Butylbenzene	42.6		"	50.0		85.2	80-127				
Tetrachloroethylene	43.8		"	50.0		87.5	80-129				
Toluene	46.6		"	50.0		93.1	85-121				
trans-1,2-Dichloroethylene	45.6		"	50.0		91.1	72-132				
trans-1,3-Dichloropropylene	47.8		"	50.0		95.5	78-132				
Trichloroethylene	48.3		"	50.0		96.5	84-123				
Trichlorofluoromethane	44.3		"	50.0		88.6	62-140				
Vinyl acetate	54.6		"	50.0		109	67-136				
Vinyl Chloride	44.4		"	50.0		88.9	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.0*		*"*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*51.4*		*"*	*50.0*		*103*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.4*		*"*	*50.0*		*98.8*	*76-130*				
LCS Dup (BB21531-BSD1) LCS Dup								Prepared: 02/07/2022 Analyzed: 02/08/2022			
1,1,1,2-Tetrachloroethane	47.6		ug/L	50.0		95.1	75-129		1.67	30	
1,1,1-Trichloroethane	44.4		"	50.0		88.8	71-137		1.04	30	
1,1,2,2-Tetrachloroethane	49.4		"	50.0		98.9	79-129		1.86	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46.0		"	50.0		91.9	58-146		1.32	30	
1,1,2-Trichloroethane	47.2		"	50.0		94.5	83-123		1.04	30	
1,1-Dichloroethane	43.7		"	50.0		87.3	75-130		1.25	30	
1,1-Dichloroethylene	45.9		"	50.0		91.8	64-137		0.911	30	
1,1-Dichloropropylene	41.1		"	50.0		82.2	77-127		0.146	30	
1,2,3-Trichlorobenzene	49.3		"	50.0		98.6	81-140		5.25	30	
1,2,3-Trichloropropane	48.9		"	50.0		97.9	81-126		0.841	30	
1,2,4-Trichlorobenzene	50.0		"	50.0		100	80-141		8.44	30	
1,2,4-Trimethylbenzene	49.6		"	50.0		99.2	84-125		3.84	30	
1,2-Dibromo-3-chloropropane	50.8		"	50.0		102	74-142		2.27	30	
1,2-Dibromoethane	49.1		"	50.0		98.1	86-123		0.736	30	
1,2-Dichlorobenzene	48.8		"	50.0		97.6	85-122		3.74	30	
1,2-Dichloroethane	45.0		"	50.0		90.1	71-133		0.333	30	
1,2-Dichloropropane	49.7		"	50.0		99.3	81-122		0.121	30	
1,3,5-Trimethylbenzene	49.2		"	50.0		98.4	82-126		4.72	30	
1,3-Dichlorobenzene	47.9		"	50.0		95.8	84-124		5.20	30	
1,3-Dichloropropane	47.8		"	50.0		95.5	83-123		1.26	30	
1,4-Dichlorobenzene	49.0		"	50.0		98.0	84-124		5.82	30	
1,4-Dioxane	1330		"	1050		127	10-228		1.63	30	
2,2-Dichloropropane	43.5		"	50.0		87.0	67-136		1.04	30	
2-Butanone	43.9		"	50.0		87.8	58-147		0.386	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21531 - EPA 5035A											
LCS Dup (BB21531-BSD1) LCS Dup									Prepared: 02/07/2022 Analyzed: 02/08/2022		
2-Chlorotoluene	49.4		ug/L	50.0		98.9	78-127		4.13	30	
2-Hexanone	50.3		"	50.0		101	70-139		1.24	30	
4-Chlorotoluene	49.3		"	50.0		98.7	79-125		4.16	30	
4-Methyl-2-pentanone	54.1		"	50.0		108	72-132		0.705	30	
Acetone	24.2		"	50.0		48.4	36-155		0.206	30	
Acrolein	23.8		"	50.0		47.6	10-238		7.21	30	
Acrylonitrile	43.7		"	50.0		87.4	66-141		0.775	30	
Benzene	44.1		"	50.0		88.3	77-127		0.925	30	
Bromobenzene	48.8		"	50.0		97.6	77-129		3.59	30	
Bromochloromethane	43.8		"	50.0		87.7	74-129		0.251	30	
Bromodichloromethane	49.6		"	50.0		99.2	81-124		2.20	30	
Bromoform	51.5		"	50.0		103	80-136		0.175	30	
Bromomethane	45.0		"	50.0		89.9	32-177		0.0223	30	
Carbon disulfide	48.5		"	50.0		97.0	10-136		0.596	30	
Carbon tetrachloride	44.8		"	50.0		89.6	66-143		0.535	30	
Chlorobenzene	49.4		"	50.0		98.8	86-120		1.94	30	
Chloroethane	43.4		"	50.0		86.8	51-142		1.21	30	
Chloroform	45.0		"	50.0		90.0	76-131		0.468	30	
Chloromethane	49.1		"	50.0		98.2	49-132		0.366	30	
cis-1,2-Dichloroethylene	44.4		"	50.0		88.8	74-132		0.740	30	
cis-1,3-Dichloropropylene	49.5		"	50.0		99.0	81-129		2.68	30	
Cyclohexane	37.4		"	50.0		74.8	70-130		0.480	30	
Dibromochloromethane	49.5		"	50.0		99.0	10-200		1.63	30	
Dibromomethane	47.7		"	50.0		95.4	83-124		0.399	30	
Dichlorodifluoromethane	46.2		"	50.0		92.5	28-158		1.63	30	
Ethyl Benzene	48.8		"	50.0		97.7	84-125		1.90	30	
Hexachlorobutadiene	49.2		"	50.0		98.4	83-133		4.93	30	
Isopropylbenzene	52.2		"	50.0		104	81-127		3.69	30	
Methyl acetate	43.3		"	50.0		86.6	41-143		2.60	30	
Methyl tert-butyl ether (MTBE)	47.1		"	50.0		94.1	74-131		0.554	30	
Methylcyclohexane	50.0		"	50.0		100	70-130		0.501	30	
Methylene chloride	44.0		"	50.0		88.0	57-141		1.15	30	
n-Butylbenzene	47.7		"	50.0		95.4	80-130		4.19	30	
n-Propylbenzene	49.1		"	50.0		98.3	74-136		4.26	30	
o-Xylene	51.1		"	50.0		102	83-123		2.02	30	
p- & m- Xylenes	98.5		"	100		98.5	82-128		2.13	30	
p-Isopropyltoluene	50.2		"	50.0		100	85-125		4.07	30	
sec-Butylbenzene	49.9		"	50.0		99.8	83-125		3.44	30	
Styrene	48.5		"	50.0		97.0	86-126		0.891	30	
tert-Butyl alcohol (TBA)	233		"	250		93.4	70-130		25.4	30	
tert-Butylbenzene	43.8		"	50.0		87.6	80-127		2.78	30	
Tetrachloroethylene	45.1		"	50.0		90.3	80-129		3.06	30	
Toluene	46.3		"	50.0		92.7	85-121		0.474	30	
trans-1,2-Dichloroethylene	45.6		"	50.0		91.1	72-132		0.0220	30	
trans-1,3-Dichloropropylene	49.0		"	50.0		98.0	78-132		2.52	30	
Trichloroethylene	49.2		"	50.0		98.4	84-123		1.95	30	
Trichlorofluoromethane	43.4		"	50.0		86.7	62-140		2.17	30	
Vinyl acetate	54.0		"	50.0		108	67-136		1.20	30	
Vinyl Chloride	44.0		"	50.0		88.0	52-130		0.972	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.2*		*"*	*50.0*		*100*	*77-125*				
Surrogate: SURR: Toluene-d8	*51.8*		*"*	*50.0*		*104*	*85-120*				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21531 - EPA 5035A											
LCS Dup (BB21531-BSD1) LCS Dup									Prepared: 02/07/2022 Analyzed: 02/08/2022		
Surrogate: SURR: p-Bromofluorobenzene	*50.3*		*ug/L*	*50.0*		*101*	*76-130*				
Batch BB21591 - EPA 5030B											
Blank (BB21591-BLK1) Blank									Prepared & Analyzed: 02/08/2022		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2,2-Dichloropropane	ND	0.500	"								
2-Butanone	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21591 - EPA 5030B											
Blank (BB21591-BLK1) Blank									Prepared & Analyzed: 02/08/2022		
Dibromochloromethane	ND	0.500	ug/L								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl acetate	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.3*		*"*	*10.0*		*103*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.3*		*"*	*10.0*		*113*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21591 - EPA 5030B											
LCS (BB21591-BS1) LCS							Prepared & Analyzed: 02/08/2022				
1,1,1,2-Tetrachloroethane	8.64		ug/L	10.0		86.4	82-126				
1,1,1-Trichloroethane	8.86		"	10.0		88.6	78-136				
1,1,2,2-Tetrachloroethane	9.72		"	10.0		97.2	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.76		"	10.0		97.6	54-165				
1,1,2-Trichloroethane	8.69		"	10.0		86.9	82-123				
1,1-Dichloroethane	9.66		"	10.0		96.6	82-129				
1,1-Dichloroethylene	10.7		"	10.0		107	68-138				
1,1-Dichloropropylene	9.06		"	10.0		90.6	83-133				
1,2,3-Trichlorobenzene	7.41		"	10.0		74.1	76-136	Low Bias			
1,2,3-Trichloropropane	9.15		"	10.0		91.5	77-128				
1,2,4-Trichlorobenzene	7.67		"	10.0		76.7	76-137				
1,2,4-Trimethylbenzene	9.85		"	10.0		98.5	82-132				
1,2-Dibromo-3-chloropropane	7.73		"	10.0		77.3	45-147				
1,2-Dibromoethane	8.71		"	10.0		87.1	83-124				
1,2-Dichlorobenzene	9.36		"	10.0		93.6	79-123				
1,2-Dichloroethane	9.45		"	10.0		94.5	73-132				
1,2-Dichloropropane	10.7		"	10.0		107	78-126				
1,3,5-Trimethylbenzene	9.94		"	10.0		99.4	80-131				
1,3-Dichlorobenzene	8.73		"	10.0		87.3	86-122				
1,3-Dichloropropane	9.19		"	10.0		91.9	81-125				
1,4-Dichlorobenzene	8.98		"	10.0		89.8	85-124				
1,4-Dioxane	224		"	210		107	10-349				
2,2-Dichloropropane	9.68		"	10.0		96.8	56-150				
2-Butanone	9.31		"	10.0		93.1	49-152				
2-Chlorotoluene	10.2		"	10.0		102	79-130				
2-Hexanone	10.3		"	10.0		103	51-146				
4-Chlorotoluene	10.2		"	10.0		102	79-128				
4-Methyl-2-pentanone	10.3		"	10.0		103	57-145				
Acetone	9.15		"	10.0		91.5	14-150				
Acrolein	5.10		"	10.0		51.0	10-153				
Acrylonitrile	9.29		"	10.0		92.9	51-150				
Benzene	9.52		"	10.0		95.2	85-126				
Bromobenzene	9.94		"	10.0		99.4	78-129				
Bromochloromethane	10.0		"	10.0		100	77-128				
Bromodichloromethane	9.16		"	10.0		91.6	79-128				
Bromoform	7.43		"	10.0		74.3	78-133	Low Bias			
Bromomethane	2.40		"	10.0		24.0	43-168	Low Bias			
Carbon disulfide	9.93		"	10.0		99.3	68-146				
Carbon tetrachloride	8.86		"	10.0		88.6	77-141				
Chlorobenzene	9.56		"	10.0		95.6	88-120				
Chloroethane	10.1		"	10.0		101	65-136				
Chloroform	9.24		"	10.0		92.4	82-128				
Chloromethane	9.89		"	10.0		98.9	43-155				
cis-1,2-Dichloroethylene	9.77		"	10.0		97.7	83-129				
cis-1,3-Dichloropropylene	9.38		"	10.0		93.8	80-131				
Cyclohexane	7.74		"	10.0		77.4	63-149				
Dibromochloromethane	8.08		"	10.0		80.8	80-130				
Dibromomethane	9.05		"	10.0		90.5	72-134				
Dichlorodifluoromethane	12.2		"	10.0		122	44-144				
Ethyl Benzene	10.4		"	10.0		104	80-131				
Hexachlorobutadiene	9.71		"	10.0		97.1	67-146				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21591 - EPA 5030B											
LCS (BB21591-BS1) LCS								Prepared & Analyzed: 02/08/2022			
Isopropylbenzene	10.4		ug/L	10.0		104	76-140				
Methyl acetate	9.48		"	10.0		94.8	51-139				
Methyl tert-butyl ether (MTBE)	8.92		"	10.0		89.2	76-135				
Methylcyclohexane	10.4		"	10.0		104	72-143				
Methylene chloride	9.64		"	10.0		96.4	55-137				
n-Butylbenzene	11.3		"	10.0		113	79-132				
n-Propylbenzene	10.8		"	10.0		108	78-133				
o-Xylene	10.1		"	10.0		101	78-130				
p- & m- Xylenes	17.7		"	20.0		88.4	77-133				
p-Isopropyltoluene	9.89		"	10.0		98.9	81-136				
sec-Butylbenzene	10.2		"	10.0		102	79-137				
Styrene	9.56		"	10.0		95.6	67-132				
tert-Butyl alcohol (TBA)	39.0		"	50.0		77.9	25-162				
tert-Butylbenzene	7.90		"	10.0		79.0	77-138				
Tetrachloroethylene	8.25		"	10.0		82.5	82-131				
Toluene	9.86		"	10.0		98.6	80-127				
trans-1,2-Dichloroethylene	10.0		"	10.0		100	80-132				
trans-1,3-Dichloropropylene	9.11		"	10.0		91.1	78-131				
Trichloroethylene	9.25		"	10.0		92.5	82-128				
Trichlorofluoromethane	10.6		"	10.0		106	67-139				
Vinyl acetate	10.9		"	10.0		109	21-90	High Bias			
Vinyl Chloride	12.5		"	10.0		125	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.9*		*"*	*10.0*		*109*	*79-122*				
LCS Dup (BB21591-BSD1) LCS Dup								Prepared & Analyzed: 02/08/2022			
1,1,1,2-Tetrachloroethane	8.57		ug/L	10.0		85.7	82-126		0.813	30	
1,1,1-Trichloroethane	8.58		"	10.0		85.8	78-136		3.21	30	
1,1,2,2-Tetrachloroethane	9.87		"	10.0		98.7	76-129		1.53	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.26		"	10.0		92.6	54-165		5.26	30	
1,1,2-Trichloroethane	9.06		"	10.0		90.6	82-123		4.17	30	
1,1-Dichloroethane	9.37		"	10.0		93.7	82-129		3.05	30	
1,1-Dichloroethylene	10.1		"	10.0		101	68-138		5.69	30	
1,1-Dichloropropylene	8.72		"	10.0		87.2	83-133		3.82	30	
1,2,3-Trichlorobenzene	7.52		"	10.0		75.2	76-136	Low Bias	1.47	30	
1,2,3-Trichloropropane	9.17		"	10.0		91.7	77-128		0.218	30	
1,2,4-Trichlorobenzene	7.65		"	10.0		76.5	76-137		0.261	30	
1,2,4-Trimethylbenzene	9.35		"	10.0		93.5	82-132		5.21	30	
1,2-Dibromo-3-chloropropane	7.89		"	10.0		78.9	45-147		2.05	30	
1,2-Dibromoethane	9.10		"	10.0		91.0	83-124		4.38	30	
1,2-Dichlorobenzene	9.14		"	10.0		91.4	79-123		2.38	30	
1,2-Dichloroethane	9.73		"	10.0		97.3	73-132		2.92	30	
1,2-Dichloropropane	10.5		"	10.0		105	78-126		1.51	30	
1,3,5-Trimethylbenzene	9.43		"	10.0		94.3	80-131		5.27	30	
1,3-Dichlorobenzene	8.44		"	10.0		84.4	86-122	Low Bias	3.38	30	
1,3-Dichloropropane	9.46		"	10.0		94.6	81-125		2.90	30	
1,4-Dichlorobenzene	8.65		"	10.0		86.5	85-124		3.74	30	
1,4-Dioxane	247		"	210		118	10-349		9.61	30	
2,2-Dichloropropane	9.30		"	10.0		93.0	56-150		4.00	30	
2-Butanone	10.1		"	10.0		101	49-152		8.24	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21591 - EPA 5030B											
LCS Dup (BB21591-BSD1) LCS Dup								Prepared & Analyzed: 02/08/2022			
2-Chlorotoluene	9.60		ug/L	10.0		96.0	79-130		5.67	30	
2-Hexanone	11.3		"	10.0		113	51-146		9.07	30	
4-Chlorotoluene	9.69		"	10.0		96.9	79-128		5.32	30	
4-Methyl-2-pentanone	11.1		"	10.0		111	57-145		7.74	30	
Acetone	9.87		"	10.0		98.7	14-150		7.57	30	
Acrolein	5.49		"	10.0		54.9	10-153		7.37	30	
Acrylonitrile	10.4		"	10.0		104	51-150		10.8	30	
Benzene	9.30		"	10.0		93.0	85-126		2.34	30	
Bromobenzene	8.74		"	10.0		87.4	78-129		12.8	30	
Bromochloromethane	10.0		"	10.0		100	77-128		0.0999	30	
Bromodichloromethane	9.14		"	10.0		91.4	79-128		0.219	30	
Bromoform	7.95		"	10.0		79.5	78-133		6.76	30	
Bromomethane	2.71		"	10.0		27.1	43-168	Low Bias	12.1	30	
Carbon disulfide	9.49		"	10.0		94.9	68-146		4.53	30	
Carbon tetrachloride	8.48		"	10.0		84.8	77-141		4.38	30	
Chlorobenzene	9.42		"	10.0		94.2	88-120		1.48	30	
Chloroethane	9.69		"	10.0		96.9	65-136		4.34	30	
Chloroform	9.08		"	10.0		90.8	82-128		1.75	30	
Chloromethane	8.77		"	10.0		87.7	43-155		12.0	30	
cis-1,2-Dichloroethylene	9.52		"	10.0		95.2	83-129		2.59	30	
cis-1,3-Dichloropropylene	9.35		"	10.0		93.5	80-131		0.320	30	
Cyclohexane	7.47		"	10.0		74.7	63-149		3.55	30	
Dibromochloromethane	8.28		"	10.0		82.8	80-130		2.44	30	
Dibromomethane	9.22		"	10.0		92.2	72-134		1.86	30	
Dichlorodifluoromethane	11.2		"	10.0		112	44-144		8.78	30	
Ethyl Benzene	10.1		"	10.0		101	80-131		2.44	30	
Hexachlorobutadiene	9.67		"	10.0		96.7	67-146		0.413	30	
Isopropylbenzene	9.78		"	10.0		97.8	76-140		6.62	30	
Methyl acetate	10.1		"	10.0		101	51-139		6.73	30	
Methyl tert-butyl ether (MTBE)	9.35		"	10.0		93.5	76-135		4.71	30	
Methylcyclohexane	9.96		"	10.0		99.6	72-143		4.03	30	
Methylene chloride	9.52		"	10.0		95.2	55-137		1.25	30	
n-Butylbenzene	10.8		"	10.0		108	79-132		4.79	30	
n-Propylbenzene	10.2		"	10.0		102	78-133		6.19	30	
o-Xylene	9.97		"	10.0		99.7	78-130		0.998	30	
p- & m- Xylenes	17.3		"	20.0		86.6	77-133		2.17	30	
p-Isopropyltoluene	9.38		"	10.0		93.8	81-136		5.29	30	
sec-Butylbenzene	9.62		"	10.0		96.2	79-137		5.46	30	
Styrene	9.54		"	10.0		95.4	67-132		0.209	30	
tert-Butyl alcohol (TBA)	43.1		"	50.0		86.1	25-162		9.97	30	
tert-Butylbenzene	7.44		"	10.0		74.4	77-138	Low Bias	6.00	30	
Tetrachloroethylene	7.99		"	10.0		79.9	82-131	Low Bias	3.20	30	
Toluene	9.59		"	10.0		95.9	80-127		2.78	30	
trans-1,2-Dichloroethylene	9.64		"	10.0		96.4	80-132		3.87	30	
trans-1,3-Dichloropropylene	9.29		"	10.0		92.9	78-131		1.96	30	
Trichloroethylene	8.98		"	10.0		89.8	82-128		2.96	30	
Trichlorofluoromethane	9.90		"	10.0		99.0	67-139		7.11	30	
Vinyl acetate	11.8		"	10.0		118	21-90	High Bias	8.46	30	
Vinyl Chloride	11.4		"	10.0		114	58-145		8.78	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21591 - EPA 5030B											
LCS Dup (BB21591-BSD1) LCS Dup									Prepared & Analyzed: 02/08/2022		
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*ug/L*	*10.0*		*104*	*79-122*				
Batch BB21663 - EPA 5035A											
Blank (BB21663-BLK1) Blank									Prepared: 02/08/2022 Analyzed: 02/09/2022		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,1-Dichloropropylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
2-Chlorotoluene	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Chlorotoluene	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromobenzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21663 - EPA 5035A											
Blank (BB21663-BLK1) Blank									Prepared: 02/08/2022 Analyzed: 02/09/2022		
Dibromochloromethane	ND	0.0050	mg/kg wet								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl acetate	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.9*		*ug/L*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.6*		*"*	*50.0*		*99.2*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.8*		*"*	*50.0*		*97.5*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21663 - EPA 5035A											
Blank (BB21663-BLK2) MeOH Blank									Prepared: 02/08/2022 Analyzed: 02/09/2022		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,1-Dichloropropylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,3-Dichloropropane	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2,2-Dichloropropane	ND	0.0050	"								
2-Butanone	ND	0.0050	"								
2-Chlorotoluene	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Chlorotoluene	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromobenzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	0.0042	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21663 - EPA 5035A											
Blank (BB21663-BLK2) MeOH Blank									Prepared: 02/08/2022 Analyzed: 02/09/2022		
Isopropylbenzene	ND	0.0050	mg/kg wet								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl acetate	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.8*		*ug/L*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.8*		*"*	*50.0*		*99.7*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.2*		*"*	*50.0*		*96.5*	*76-130*				
LCS (BB21663-BS1) LCS									Prepared: 02/08/2022 Analyzed: 02/09/2022		
1,1,1,2-Tetrachloroethane	44.4		ug/L	50.0		88.8	75-129				
1,1,1-Trichloroethane	45.2		"	50.0		90.3	71-137				
1,1,2,2-Tetrachloroethane	48.1		"	50.0		96.2	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55.2		"	50.0		110	58-146				
1,1,2-Trichloroethane	47.3		"	50.0		94.5	83-123				
1,1-Dichloroethane	46.4		"	50.0		92.8	75-130				
1,1-Dichloroethylene	47.8		"	50.0		95.7	64-137				
1,1-Dichloropropylene	44.1		"	50.0		88.2	77-127				
1,2,3-Trichlorobenzene	44.6		"	50.0		89.3	81-140				
1,2,3-Trichloropropane	48.6		"	50.0		97.3	81-126				
1,2,4-Trichlorobenzene	42.4		"	50.0		84.7	80-141				
1,2,4-Trimethylbenzene	45.5		"	50.0		91.0	84-125				
1,2-Dibromo-3-chloropropane	46.0		"	50.0		92.0	74-142				
1,2-Dibromoethane	48.6		"	50.0		97.1	86-123				
1,2-Dichlorobenzene	45.6		"	50.0		91.3	85-122				
1,2-Dichloroethane	48.5		"	50.0		97.0	71-133				
1,2-Dichloropropane	47.5		"	50.0		95.0	81-122				
1,3,5-Trimethylbenzene	44.6		"	50.0		89.2	82-126				
1,3-Dichlorobenzene	44.9		"	50.0		89.8	84-124				
1,3-Dichloropropane	46.4		"	50.0		92.7	83-123				
1,4-Dichlorobenzene	44.8		"	50.0		89.7	84-124				
1,4-Dioxane	1110		"	1050		106	10-228				
2,2-Dichloropropane	42.6		"	50.0		85.3	67-136				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21663 - EPA 5035A											
LCS (BB21663-BS1) LCS								Prepared: 02/08/2022 Analyzed: 02/09/2022			
2-Butanone	46.6		ug/L	50.0		93.1	58-147				
2-Chlorotoluene	46.4		"	50.0		92.9	78-127				
2-Hexanone	47.8		"	50.0		95.6	70-139				
4-Chlorotoluene	46.6		"	50.0		93.3	79-125				
4-Methyl-2-pentanone	48.7		"	50.0		97.5	72-132				
Acetone	39.7		"	50.0		79.4	36-155				
Acrolein	39.2		"	50.0		78.4	10-238				
Acrylonitrile	48.5		"	50.0		97.0	66-141				
Benzene	47.7		"	50.0		95.4	77-127				
Bromobenzene	45.2		"	50.0		90.3	77-129				
Bromochloromethane	48.9		"	50.0		97.8	74-129				
Bromodichloromethane	46.3		"	50.0		92.6	81-124				
Bromoform	44.1		"	50.0		88.2	80-136				
Bromomethane	62.4		"	50.0		125	32-177				
Carbon disulfide	52.3		"	50.0		105	10-136				
Carbon tetrachloride	43.7		"	50.0		87.4	66-143				
Chlorobenzene	48.2		"	50.0		96.3	86-120				
Chloroethane	43.9		"	50.0		87.8	51-142				
Chloroform	47.8		"	50.0		95.7	76-131				
Chloromethane	41.0		"	50.0		82.1	49-132				
cis-1,2-Dichloroethylene	45.6		"	50.0		91.2	74-132				
cis-1,3-Dichloropropylene	44.3		"	50.0		88.6	81-129				
Cyclohexane	44.2		"	50.0		88.5	70-130				
Dibromochloromethane	44.9		"	50.0		89.9	10-200				
Dibromomethane	47.9		"	50.0		95.8	83-124				
Dichlorodifluoromethane	40.0		"	50.0		80.0	28-158				
Ethyl Benzene	46.2		"	50.0		92.3	84-125				
Hexachlorobutadiene	44.0		"	50.0		87.9	83-133				
Isopropylbenzene	46.6		"	50.0		93.2	81-127				
Methyl acetate	44.4		"	50.0		88.7	41-143				
Methyl tert-butyl ether (MTBE)	48.7		"	50.0		97.4	74-131				
Methylcyclohexane	44.9		"	50.0		89.8	70-130				
Methylene chloride	47.5		"	50.0		95.1	57-141				
n-Butylbenzene	43.0		"	50.0		86.0	80-130				
n-Propylbenzene	45.0		"	50.0		89.9	74-136				
o-Xylene	47.1		"	50.0		94.3	83-123				
p- & m- Xylenes	93.3		"	100		93.3	82-128				
p-Isopropyltoluene	44.7		"	50.0		89.4	85-125				
sec-Butylbenzene	45.0		"	50.0		90.1	83-125				
Styrene	45.3		"	50.0		90.5	86-126				
tert-Butyl alcohol (TBA)	219		"	250		87.5	70-130				
tert-Butylbenzene	45.8		"	50.0		91.7	80-127				
Tetrachloroethylene	39.9		"	50.0		79.9	80-129	Low Bias			
Toluene	46.1		"	50.0		92.2	85-121				
trans-1,2-Dichloroethylene	47.5		"	50.0		95.0	72-132				
trans-1,3-Dichloropropylene	43.4		"	50.0		86.9	78-132				
Trichloroethylene	46.6		"	50.0		93.3	84-123				
Trichlorofluoromethane	47.0		"	50.0		94.1	62-140				
Vinyl acetate	45.7		"	50.0		91.4	67-136				
Vinyl Chloride	43.6		"	50.0		87.2	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.0*		*"*	*50.0*		*100*	*77-125*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21663 - EPA 5035A											
LCS (BB21663-BS1) LCS								Prepared: 02/08/2022 Analyzed: 02/09/2022			
Surrogate: SURR: Toluene-d8	*49.4*		*ug/L*	*50.0*		*98.7*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.9*		*"*	*50.0*		*97.9*	*76-130*				
LCS Dup (BB21663-BSD1) LCS Dup								Prepared: 02/08/2022 Analyzed: 02/09/2022			
1,1,1,2-Tetrachloroethane	46.8		ug/L	50.0		93.6	75-129		5.28	30	
1,1,1-Trichloroethane	47.8		"	50.0		95.7	71-137		5.79	30	
1,1,2,2-Tetrachloroethane	49.5		"	50.0		98.9	79-129		2.83	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	61.3		"	50.0		123	58-146		10.5	30	
1,1,2-Trichloroethane	48.7		"	50.0		97.4	83-123		2.96	30	
1,1-Dichloroethane	48.9		"	50.0		97.7	75-130		5.16	30	
1,1-Dichloroethylene	50.7		"	50.0		101	64-137		5.82	30	
1,1-Dichloropropylene	46.8		"	50.0		93.7	77-127		6.03	30	
1,2,3-Trichlorobenzene	45.3		"	50.0		90.6	81-140		1.47	30	
1,2,3-Trichloropropane	50.4		"	50.0		101	81-126		3.57	30	
1,2,4-Trichlorobenzene	43.4		"	50.0		86.8	80-141		2.47	30	
1,2,4-Trimethylbenzene	47.3		"	50.0		94.6	84-125		3.86	30	
1,2-Dibromo-3-chloropropane	47.9		"	50.0		95.8	74-142		4.09	30	
1,2-Dibromoethane	50.2		"	50.0		100	86-123		3.36	30	
1,2-Dichlorobenzene	47.5		"	50.0		95.1	85-122		4.06	30	
1,2-Dichloroethane	49.2		"	50.0		98.4	71-133		1.41	30	
1,2-Dichloropropane	49.8		"	50.0		99.5	81-122		4.65	30	
1,3,5-Trimethylbenzene	46.5		"	50.0		93.0	82-126		4.17	30	
1,3-Dichlorobenzene	46.4		"	50.0		92.8	84-124		3.33	30	
1,3-Dichloropropane	48.1		"	50.0		96.2	83-123		3.71	30	
1,4-Dichlorobenzene	45.7		"	50.0		91.5	84-124		1.96	30	
1,4-Dioxane	1130		"	1050		108	10-228		1.75	30	
2,2-Dichloropropane	44.9		"	50.0		89.7	67-136		5.12	30	
2-Butanone	54.2		"	50.0		108	58-147		15.2	30	
2-Chlorotoluene	48.2		"	50.0		96.4	78-127		3.68	30	
2-Hexanone	49.7		"	50.0		99.5	70-139		3.94	30	
4-Chlorotoluene	48.5		"	50.0		97.0	79-125		3.87	30	
4-Methyl-2-pentanone	50.5		"	50.0		101	72-132		3.57	30	
Acetone	41.2		"	50.0		82.4	36-155		3.68	30	
Acrolein	42.2		"	50.0		84.4	10-238		7.39	30	
Acrylonitrile	49.8		"	50.0		99.6	66-141		2.62	30	
Benzene	49.2		"	50.0		98.5	77-127		3.12	30	
Bromobenzene	46.7		"	50.0		93.3	77-129		3.27	30	
Bromochloromethane	50.4		"	50.0		101	74-129		2.90	30	
Bromodichloromethane	48.9		"	50.0		97.7	81-124		5.40	30	
Bromoform	47.2		"	50.0		94.4	80-136		6.77	30	
Bromomethane	68.9		"	50.0		138	32-177		9.83	30	
Carbon disulfide	55.2		"	50.0		110	10-136		5.51	30	
Carbon tetrachloride	46.9		"	50.0		93.8	66-143		7.15	30	
Chlorobenzene	50.6		"	50.0		101	86-120		5.06	30	
Chloroethane	47.6		"	50.0		95.1	51-142		7.98	30	
Chloroform	49.9		"	50.0		99.8	76-131		4.22	30	
Chloromethane	43.1		"	50.0		86.3	49-132		4.99	30	
cis-1,2-Dichloroethylene	47.8		"	50.0		95.5	74-132		4.65	30	
cis-1,3-Dichloropropylene	46.3		"	50.0		92.5	81-129		4.31	30	
Cyclohexane	46.9		"	50.0		93.8	70-130		5.86	30	
Dibromochloromethane	47.5		"	50.0		95.0	10-200		5.58	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21663 - EPA 5035A											
LCS Dup (BB21663-BSD1) LCS Dup									Prepared: 02/08/2022 Analyzed: 02/09/2022		
Dibromomethane	49.7		ug/L	50.0		99.4	83-124		3.69	30	
Dichlorodifluoromethane	42.6		"	50.0		85.1	28-158		6.15	30	
Ethyl Benzene	48.9		"	50.0		97.9	84-125		5.87	30	
Hexachlorobutadiene	46.2		"	50.0		92.4	83-133		4.99	30	
Isopropylbenzene	48.9		"	50.0		97.9	81-127		4.92	30	
Methyl acetate	48.3		"	50.0		96.6	41-143		8.44	30	
Methyl tert-butyl ether (MTBE)	50.2		"	50.0		100	74-131		3.03	30	
Methylcyclohexane	47.6		"	50.0		95.1	70-130		5.75	30	
Methylene chloride	49.0		"	50.0		98.0	57-141		3.00	30	
n-Butylbenzene	43.9		"	50.0		87.8	80-130		2.10	30	
n-Propylbenzene	47.0		"	50.0		94.1	74-136		4.54	30	
o-Xylene	49.6		"	50.0		99.1	83-123		5.03	30	
p- & m- Xylenes	97.6		"	100		97.6	82-128		4.53	30	
p-Isopropyltoluene	47.0		"	50.0		94.0	85-125		4.97	30	
sec-Butylbenzene	47.4		"	50.0		94.9	83-125		5.15	30	
Styrene	47.3		"	50.0		94.7	86-126		4.47	30	
tert-Butyl alcohol (TBA)	229		"	250		91.6	70-130		4.57	30	
tert-Butylbenzene	48.3		"	50.0		96.6	80-127		5.18	30	
Tetrachloroethylene	42.3		"	50.0		84.5	80-129		5.64	30	
Toluene	48.5		"	50.0		97.0	85-121		5.09	30	
trans-1,2-Dichloroethylene	49.6		"	50.0		99.2	72-132		4.30	30	
trans-1,3-Dichloropropylene	45.2		"	50.0		90.3	78-132		3.91	30	
Trichloroethylene	49.4		"	50.0		98.8	84-123		5.73	30	
Trichlorofluoromethane	51.3		"	50.0		103	62-140		8.64	30	
Vinyl acetate	50.0		"	50.0		100	67-136		9.05	30	
Vinyl Chloride	47.1		"	50.0		94.2	52-130		7.72	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.4*		*"*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.0*		*"*	*50.0*		*100*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.8*		*"*	*50.0*		*97.7*	*76-130*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BB21496 - EPA 3546 SVOA

Blank (BB21496-BLK1) Blank — Prepared: 02/07/2022 Analyzed: 02/08/2022

1,1-Biphenyl	ND	0.0416	mg/kg wet
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"
1,2,4-Trichlorobenzene	ND	0.0416	"
1,2-Dichlorobenzene	ND	0.0416	"
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"
1,3-Dichlorobenzene	ND	0.0416	"
1,4-Dichlorobenzene	ND	0.0416	"
2,3,4,6-Tetrachlorophenol	ND	0.0830	"
2,4,5-Trichlorophenol	ND	0.0416	"
2,4,6-Trichlorophenol	ND	0.0416	"
2,4-Dichlorophenol	ND	0.0416	"
2,4-Dimethylphenol	ND	0.0416	"
2,4-Dinitrophenol	ND	0.0830	"
2,4-Dinitrotoluene	ND	0.0416	"
2,6-Dinitrotoluene	ND	0.0416	"
2-Chloronaphthalene	ND	0.0416	"
2-Chlorophenol	ND	0.0416	"
2-Methylnaphthalene	ND	0.0416	"
2-Methylphenol	ND	0.0416	"
2-Nitroaniline	ND	0.0830	"
2-Nitrophenol	ND	0.0416	"
3- & 4-Methylphenols	ND	0.0416	"
3,3-Dichlorobenzidine	ND	0.0416	"
3-Nitroaniline	ND	0.0830	"
4,6-Dinitro-2-methylphenol	ND	0.0830	"
4-Bromophenyl phenyl ether	ND	0.0416	"
4-Chloro-3-methylphenol	ND	0.0416	"
4-Chloroaniline	ND	0.0416	"
4-Chlorophenyl phenyl ether	ND	0.0416	"
4-Nitroaniline	ND	0.0830	"
4-Nitrophenol	ND	0.0830	"
Acenaphthene	ND	0.0416	"
Acenaphthylene	ND	0.0416	"
Acetophenone	ND	0.0416	"
Aniline	ND	0.166	"
Anthracene	ND	0.0416	"
Atrazine	ND	0.0416	"
Benzaldehyde	ND	0.0416	"
Benzidine	ND	0.166	"
Benzo(a)anthracene	ND	0.0416	"
Benzo(a)pyrene	ND	0.0416	"
Benzo(b)fluoranthene	ND	0.0416	"
Benzo(g,h,i)perylene	ND	0.0416	"
Benzo(k)fluoranthene	ND	0.0416	"
Benzoic acid	ND	0.0416	"
Benzyl alcohol	ND	0.0416	"
Benzyl butyl phthalate	ND	0.0416	"
Bis(2-chloroethoxy)methane	ND	0.0416	"
Bis(2-chloroethyl)ether	ND	0.0416	"
Bis(2-chloroisopropyl)ether	ND	0.0416	"
Bis(2-ethylhexyl)phthalate	ND	0.0416	"



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21496 - EPA 3546 SVOA											
Blank (BB21496-BLK1) Blank									Prepared: 02/07/2022 Analyzed: 02/08/2022		
Caprolactam	ND	0.0830	mg/kg wet								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
Surrogate: SURR: 2-Fluorophenol	*0.958*		"	*1.66*		*57.7*	*20-108*				
Surrogate: SURR: Phenol-d5	*0.857*		"	*1.66*		*51.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.444*		"	*0.831*		*53.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.402*		"	*0.831*		*48.4*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.05*		"	*1.66*		*63.4*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.381*		"	*0.831*		*45.8*	*24-116*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21496 - EPA 3546 SVOA											
LCS (BB21496-BS1) LCS									Prepared: 02/07/2022 Analyzed: 02/08/2022		
1,1-Biphenyl	0.432	0.0416	mg/kg wet	0.831		52.0	18-111				
1,2,4,5-Tetrachlorobenzene	0.446	0.0830	"	0.831		53.7	21-131				
1,2,4-Trichlorobenzene	0.387	0.0416	"	0.831		46.6	10-140				
1,2-Dichlorobenzene	0.395	0.0416	"	0.831		47.6	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.386	0.0416	"	0.831		46.4	17-137				
1,3-Dichlorobenzene	0.386	0.0416	"	0.831		46.5	33-110				
1,4-Dichlorobenzene	0.387	0.0416	"	0.831		46.6	32-104				
2,3,4,6-Tetrachlorophenol	0.390	0.0830	"	0.831		47.0	30-130				
2,4,5-Trichlorophenol	0.449	0.0416	"	0.831		54.0	27-118				
2,4,6-Trichlorophenol	0.433	0.0416	"	0.831		52.2	31-120				
2,4-Dichlorophenol	0.454	0.0416	"	0.831		54.7	20-127				
2,4-Dimethylphenol	0.455	0.0416	"	0.831		54.8	14-132				
2,4-Dinitrophenol	0.200	0.0830	"	0.831		24.1	10-171				
2,4-Dinitrotoluene	0.537	0.0416	"	0.831		64.7	34-131				
2,6-Dinitrotoluene	0.553	0.0416	"	0.831		66.6	31-128				
2-Chloronaphthalene	0.399	0.0416	"	0.831		48.0	31-117				
2-Chlorophenol	0.439	0.0416	"	0.831		52.8	33-113				
2-Methylnaphthalene	0.412	0.0416	"	0.831		49.6	12-138				
2-Methylphenol	0.425	0.0416	"	0.831		51.2	10-136				
2-Nitroaniline	0.512	0.0830	"	0.831		61.6	27-132				
2-Nitrophenol	0.559	0.0416	"	0.831		67.4	17-129				
3- & 4-Methylphenols	0.357	0.0416	"	0.831		43.0	29-103				
3,3-Dichlorobenzidine	0.748	0.0416	"	0.831		90.1	22-149				
3-Nitroaniline	0.413	0.0830	"	0.831		49.7	20-133				
4,6-Dinitro-2-methylphenol	0.444	0.0830	"	0.831		53.4	10-143				
4-Bromophenyl phenyl ether	0.418	0.0416	"	0.831		50.4	29-120				
4-Chloro-3-methylphenol	0.425	0.0416	"	0.831		51.1	24-129				
4-Chloroaniline	0.246	0.0416	"	0.831		29.6	10-132				
4-Chlorophenyl phenyl ether	0.389	0.0416	"	0.831		46.8	27-124				
4-Nitroaniline	0.473	0.0830	"	0.831		56.9	16-128				
4-Nitrophenol	0.448	0.0830	"	0.831		54.0	10-141				
Acenaphthene	0.400	0.0416	"	0.831		48.1	30-121				
Acenaphthylene	0.389	0.0416	"	0.831		46.8	30-115				
Acetophenone	0.398	0.0416	"	0.831		47.9	20-112				
Aniline	0.386	0.166	"	0.831		46.5	10-119				
Anthracene	0.428	0.0416	"	0.831		51.5	34-118				
Atrazine	0.480	0.0416	"	0.831		57.8	26-112				
Benzaldehyde	0.434	0.0416	"	0.831		52.2	21-100				
Benzo(a)anthracene	0.404	0.0416	"	0.831		48.7	32-122				
Benzo(a)pyrene	0.415	0.0416	"	0.831		50.0	29-133				
Benzo(b)fluoranthene	0.456	0.0416	"	0.831		55.0	25-133				
Benzo(g,h,i)perylene	0.439	0.0416	"	0.831		52.9	10-143				
Benzo(k)fluoranthene	0.422	0.0416	"	0.831		50.8	25-128				
Benzoic acid	0.153	0.0416	"	0.831		18.5	10-140				
Benzyl alcohol	0.421	0.0416	"	0.831		50.7	30-115				
Benzyl butyl phthalate	0.432	0.0416	"	0.831		52.0	26-126				
Bis(2-chloroethoxy)methane	0.402	0.0416	"	0.831		48.4	19-132				
Bis(2-chloroethyl)ether	0.390	0.0416	"	0.831		47.0	19-125				
Bis(2-chloroisopropyl)ether	0.380	0.0416	"	0.831		45.8	20-135				
Bis(2-ethylhexyl)phthalate	0.445	0.0416	"	0.831		53.5	10-155				
Caprolactam	0.550	0.0830	"	0.831		66.2	10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21496 - EPA 3546 SVOA											
LCS (BB21496-BS1) LCS									Prepared: 02/07/2022 Analyzed: 02/08/2022		
Carbazole	0.425	0.0416	mg/kg wet	0.831		51.1	35-123				
Chrysene	0.389	0.0416	"	0.831		46.8	32-123				
Dibenzo(a,h)anthracene	0.472	0.0416	"	0.831		56.9	10-136				
Dibenzofuran	0.404	0.0416	"	0.831		48.6	29-121				
Diethyl phthalate	0.400	0.0416	"	0.831		48.1	34-116				
Dimethyl phthalate	0.397	0.0416	"	0.831		47.8	35-124				
Di-n-butyl phthalate	0.430	0.0416	"	0.831		51.8	31-116				
Di-n-octyl phthalate	0.436	0.0416	"	0.831		52.5	26-136				
Fluoranthene	0.393	0.0416	"	0.831		47.4	33-122				
Fluorene	0.405	0.0416	"	0.831		48.8	29-123				
Hexachlorobenzene	0.397	0.0416	"	0.831		47.8	21-124				
Hexachlorobutadiene	0.407	0.0416	"	0.831		49.0	10-149				
Hexachlorocyclopentadiene	0.373	0.0416	"	0.831		45.0	10-129				
Hexachloroethane	0.386	0.0416	"	0.831		46.5	28-108				
Indeno(1,2,3-cd)pyrene	0.433	0.0416	"	0.831		52.2	10-135				
Isophorone	0.390	0.0416	"	0.831		47.0	20-132				
Naphthalene	0.409	0.0416	"	0.831		49.2	23-124				
Nitrobenzene	0.443	0.0416	"	0.831		53.3	13-132				
N-Nitrosodimethylamine	0.419	0.0416	"	0.831		50.4	11-129				
N-nitroso-di-n-propylamine	0.375	0.0416	"	0.831		45.2	24-119				
N-Nitrosodiphenylamine	0.479	0.0416	"	0.831		57.6	22-152				
Pentachlorophenol	0.266	0.0416	"	0.831		32.1	10-139				
Phenanthrene	0.391	0.0416	"	0.831		47.0	33-123				
Phenol	0.465	0.0416	"	0.831		56.0	23-115				
Pyrene	0.398	0.0416	"	0.831		47.9	24-130				
Pyridine	0.352	0.166	"	0.831		42.4	10-91				
Surrogate: SURR: 2-Fluorophenol	*0.985*		*"*	*1.66*		*59.3*	*20-108*				
Surrogate: SURR: Phenol-d5	*0.894*		*"*	*1.66*		*53.8*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.506*		*"*	*0.831*		*61.0*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.409*		*"*	*0.831*		*49.3*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.998*		*"*	*1.66*		*60.1*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.420*		*"*	*0.831*		*50.5*	*24-116*				

Batch BB21496 - EPA 3546 SVOA

Matrix Spike (BB21496-MS1) Matrix Spike *Source sample: 22B0236-01 (Matrix Spike) Prepared: 02/07/2022 Analyzed: 02/11/2022

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1-Biphenyl	0.549	0.0865	mg/kg dry	0.864	ND	63.6	10-130				
1,2,4,5-Tetrachlorobenzene	0.913	0.173	"	0.864	ND	106	10-133				
1,2,4-Trichlorobenzene	0.827	0.0865	"	0.864	ND	95.8	10-127				
1,2-Dichlorobenzene	0.828	0.0865	"	0.864	ND	95.8	14-111				
1,2-Diphenylhydrazine (as Azobenzene)	0.657	0.0865	"	0.864	ND	76.0	10-144				
1,3-Dichlorobenzene	0.840	0.0865	"	0.864	ND	97.2	11-111				
1,4-Dichlorobenzene	0.822	0.0865	"	0.864	ND	95.1	10-106				
2,3,4,6-Tetrachlorophenol	0.903	0.173	"	0.864	ND	105	30-130				
2,4,5-Trichlorophenol	0.863	0.0865	"	0.864	ND	99.9	10-127				
2,4,6-Trichlorophenol	0.886	0.0865	"	0.864	ND	103	10-132				
2,4-Dichlorophenol	0.936	0.0865	"	0.864	ND	108	10-128				
2,4-Dimethylphenol	0.939	0.0865	"	0.864	ND	109	10-137				
2,4-Dinitrophenol	ND	0.173	"	0.864	ND		10-171	Low Bias			
2,4-Dinitrotoluene	0.960	0.0865	"	0.864	ND	111	16-135				
2,6-Dinitrotoluene	0.997	0.0865	"	0.864	ND	115	18-131				
2-Chloronaphthalene	0.782	0.0865	"	0.864	ND	90.6	10-129				
2-Chlorophenol	0.945	0.0865	"	0.864	ND	109	15-116				
2-Methylnaphthalene	0.841	0.0865	"	0.864	ND	97.4	10-147				
2-Methylphenol	0.910	0.0865	"	0.864	ND	105	10-136				
2-Nitroaniline	0.999	0.173	"	0.864	ND	116	10-137				
2-Nitrophenol	0.985	0.0865	"	0.864	ND	114	10-129				
3- & 4-Methylphenols	0.796	0.0865	"	0.864	ND	92.2	10-123				
3,3-Dichlorobenzidine	1.90	0.0865	"	0.864	ND	220	10-155	High Bias			
3-Nitroaniline	0.885	0.173	"	0.864	ND	102	12-133				
4,6-Dinitro-2-methylphenol	0.135	0.173	"	0.864	ND	15.7	10-155				
4-Bromophenyl phenyl ether	0.785	0.0865	"	0.864	ND	90.9	14-128				
4-Chloro-3-methylphenol	0.894	0.0865	"	0.864	ND	104	10-134				
4-Chloroaniline	0.780	0.0865	"	0.864	ND	90.2	10-145				
4-Chlorophenyl phenyl ether	0.798	0.0865	"	0.864	ND	92.4	14-130				
4-Nitroaniline	0.962	0.173	"	0.864	ND	111	10-147				
4-Nitrophenol	0.868	0.173	"	0.864	ND	100	10-137				
Acenaphthene	0.809	0.0865	"	0.864	ND	93.7	10-146				
Acenaphthylene	0.737	0.0865	"	0.864	ND	85.4	10-134				
Acetophenone	0.599	0.0865	"	0.864	ND	69.3	10-116				
Aniline	0.756	0.346	"	0.864	ND	87.5	10-123				
Anthracene	0.804	0.0865	"	0.864	ND	93.0	10-142				
Atrazine	0.593	0.0865	"	0.864	ND	68.6	19-115				
Benzaldehyde	0.642	0.0865	"	0.864	ND	74.3	10-125				
Benzo(a)anthracene	0.813	0.0865	"	0.864	ND	94.2	10-158				
Benzo(a)pyrene	0.823	0.0865	"	0.864	ND	95.3	10-180				
Benzo(b)fluoranthene	0.881	0.0865	"	0.864	ND	102	10-200				
Benzo(g,h,i)perylene	0.883	0.0865	"	0.864	ND	102	10-138				
Benzo(k)fluoranthene	0.868	0.0865	"	0.864	ND	100	10-197				
Benzoic acid	0.474	0.0865	"	0.864	ND	54.9	10-166				
Benzyl alcohol	0.912	0.0865	"	0.864	ND	106	12-124				
Benzyl butyl phthalate	0.699	0.0865	"	0.864	ND	81.0	10-154				
Bis(2-chloroethoxy)methane	0.808	0.0865	"	0.864	ND	93.5	10-132				
Bis(2-chloroethyl)ether	0.851	0.0865	"	0.864	ND	98.6	10-119				
Bis(2-chloroisopropyl)ether	0.842	0.0865	"	0.864	ND	97.4	10-139				
Bis(2-ethylhexyl)phthalate	0.781	0.0865	"	0.864	ND	90.4	10-167				
Caprolactam	0.809	0.173	"	0.864	ND	93.6	10-132				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21496 - EPA 3546 SVOA											
Matrix Spike (BB21496-MS1) Matrix Spike	*Source sample: 22B0236-01 (Matrix Spike)							Prepared: 02/07/2022 Analyzed: 02/11/2022			
Carbazole	0.845	0.0865	mg/kg dry	0.864	ND	97.8	10-167				
Chrysene	0.780	0.0865	"	0.864	ND	90.2	10-156				
Dibenzo(a,h)anthracene	0.930	0.0865	"	0.864	ND	108	10-137				
Dibenzofuran	0.790	0.0865	"	0.864	ND	91.4	10-147				
Diethyl phthalate	0.748	0.0865	"	0.864	ND	86.6	20-120				
Dimethyl phthalate	0.746	0.0865	"	0.864	ND	86.4	18-131				
Di-n-butyl phthalate	0.777	0.0865	"	0.864	ND	89.9	10-137				
Di-n-octyl phthalate	0.861	0.0865	"	0.864	ND	99.7	10-180				
Fluoranthene	0.890	0.0865	"	0.864	ND	103	10-160				
Fluorene	0.820	0.0865	"	0.864	ND	95.0	10-157				
Hexachlorobenzene	0.695	0.0865	"	0.864	ND	80.5	10-137				
Hexachlorobutadiene	0.885	0.0865	"	0.864	ND	102	10-132				
Hexachlorocyclopentadiene	0.0546	0.0865	"	0.864	ND	6.32	10-106	Low Bias			
Hexachloroethane	0.652	0.0865	"	0.864	ND	75.4	10-110				
Indeno(1,2,3-cd)pyrene	1.05	0.0865	"	0.864	ND	121	10-144				
Isophorone	0.800	0.0865	"	0.864	ND	92.6	10-132				
Naphthalene	0.838	0.0865	"	0.864	ND	97.0	10-141				
Nitrobenzene	0.883	0.0865	"	0.864	ND	102	10-131				
N-Nitrosodimethylamine	0.914	0.0865	"	0.864	ND	106	10-126				
N-nitroso-di-n-propylamine	0.769	0.0865	"	0.864	ND	89.0	10-125				
N-Nitrosodiphenylamine	0.889	0.0865	"	0.864	ND	103	10-177				
Pentachlorophenol	0.860	0.0865	"	0.864	ND	99.6	10-153				
Phenanthrene	0.757	0.0865	"	0.864	ND	87.6	10-148				
Phenol	0.993	0.0865	"	0.864	ND	115	10-126				
Pyrene	0.687	0.0865	"	0.864	ND	79.5	10-165				
Pyridine	0.799	0.346	"	0.864	ND	92.5	10-83	High Bias			
Surrogate: SURR: 2-Fluorophenol	*1.48*		*"*	*1.73*		*85.6*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.34*		*"*	*1.73*		*77.5*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.700*		*"*	*0.864*		*81.0*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.550*		*"*	*0.864*		*63.7*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.46*		*"*	*1.73*		*84.6*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.522*		*"*	*0.864*		*60.4*	*24-116*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21496 - EPA 3546 SVOA											
Matrix Spike Dup (BB21496-M Matrix Spike Dup	*Source sample: 22B0236-01 (Matrix Spike Dup)								Prepared: 02/07/2022 Analyzed: 02/11/2022		
1,1-Biphenyl	0.703	0.0865	mg/kg dry	0.864	ND	81.4	10-130		24.5	30	
1,2,4,5-Tetrachlorobenzene	0.809	0.173	"	0.864	ND	93.6	10-133		12.1	30	
1,2,4-Trichlorobenzene	0.664	0.0865	"	0.864	ND	76.9	10-127		21.9	30	
1,2-Dichlorobenzene	0.625	0.0865	"	0.864	ND	72.4	14-111		27.9	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.610	0.0865	"	0.864	ND	70.6	10-144		7.42	30	
1,3-Dichlorobenzene	0.637	0.0865	"	0.864	ND	73.7	11-111		27.5	30	
1,4-Dichlorobenzene	0.645	0.0865	"	0.864	ND	74.6	10-106		24.1	30	
2,3,4,6-Tetrachlorophenol	0.688	0.173	"	0.864	ND	79.6	30-130		27.1	30	
2,4,5-Trichlorophenol	0.753	0.0865	"	0.864	ND	87.2	10-127		13.6	30	
2,4,6-Trichlorophenol	0.735	0.0865	"	0.864	ND	85.0	10-132		18.7	30	
2,4-Dichlorophenol	0.771	0.0865	"	0.864	ND	89.2	10-128		19.4	30	
2,4-Dimethylphenol	0.780	0.0865	"	0.864	ND	90.3	10-137		18.4	30	
2,4-Dinitrophenol	ND	0.173	"	0.864	ND		10-171	Low Bias		30	
2,4-Dinitrotoluene	0.780	0.0865	"	0.864	ND	90.2	16-135		20.7	30	
2,6-Dinitrotoluene	0.835	0.0865	"	0.864	ND	96.6	18-131		17.7	30	
2-Chloronaphthalene	0.672	0.0865	"	0.864	ND	77.8	10-129		15.2	30	
2-Chlorophenol	0.719	0.0865	"	0.864	ND	83.2	15-116		27.2	30	
2-Methylnaphthalene	0.702	0.0865	"	0.864	ND	81.3	10-147		18.0	30	
2-Methylphenol	0.695	0.0865	"	0.864	ND	80.5	10-136		26.8	30	
2-Nitroaniline	0.840	0.173	"	0.864	ND	97.2	10-137		17.3	30	
2-Nitrophenol	0.850	0.0865	"	0.864	ND	98.4	10-129		14.7	30	
3- & 4-Methylphenols	0.601	0.0865	"	0.864	ND	69.6	10-123		27.9	30	
3,3-Dichlorobenzidine	1.56	0.0865	"	0.864	ND	180	10-155	High Bias	20.1	30	
3-Nitroaniline	0.750	0.173	"	0.864	ND	86.8	12-133		16.5	30	
4,6-Dinitro-2-methylphenol	0.180	0.173	"	0.864	ND	20.8	10-155		28.1	30	
4-Bromophenyl phenyl ether	0.727	0.0865	"	0.864	ND	84.2	14-128		7.68	30	
4-Chloro-3-methylphenol	0.713	0.0865	"	0.864	ND	82.6	10-134		22.5	30	
4-Chloroaniline	0.619	0.0865	"	0.864	ND	71.7	10-145		22.9	30	
4-Chlorophenyl phenyl ether	0.697	0.0865	"	0.864	ND	80.6	14-130		13.6	30	
4-Nitroaniline	0.706	0.173	"	0.864	ND	81.8	10-147		30.7	30	Non-dir.
4-Nitrophenol	0.677	0.173	"	0.864	ND	78.3	10-137		24.8	30	
Acenaphthene	0.670	0.0865	"	0.864	ND	77.6	10-146		18.8	30	
Acenaphthylene	0.650	0.0865	"	0.864	ND	75.3	10-134		12.5	30	
Acetophenone	0.643	0.0865	"	0.864	ND	74.4	10-116		7.13	30	
Aniline	0.552	0.346	"	0.864	ND	63.8	10-123		31.3	30	Non-dir.
Anthracene	0.690	0.0865	"	0.864	ND	79.9	10-142		15.2	30	
Atrazine	0.728	0.0865	"	0.864	ND	84.3	19-115		20.5	30	
Benzaldehyde	0.697	0.0865	"	0.864	ND	80.6	10-125		8.16	30	
Benzo(a)anthracene	0.676	0.0865	"	0.864	ND	78.2	10-158		18.5	30	
Benzo(a)pyrene	0.726	0.0865	"	0.864	ND	84.0	10-180		12.6	30	
Benzo(b)fluoranthene	0.769	0.0865	"	0.864	ND	89.0	10-200		13.6	30	
Benzo(g,h,i)perylene	0.788	0.0865	"	0.864	ND	91.2	10-138		11.4	30	
Benzo(k)fluoranthene	0.758	0.0865	"	0.864	ND	87.8	10-197		13.5	30	
Benzoic acid	0.622	0.0865	"	0.864	ND	72.0	10-166		27.0	30	
Benzyl alcohol	0.690	0.0865	"	0.864	ND	79.9	12-124		27.6	30	
Benzyl butyl phthalate	0.610	0.0865	"	0.864	ND	70.6	10-154		13.7	30	
Bis(2-chloroethoxy)methane	0.702	0.0865	"	0.864	ND	81.3	10-132		14.0	30	
Bis(2-chloroethyl)ether	0.712	0.0865	"	0.864	ND	82.4	10-119		17.9	30	
Bis(2-chloroisopropyl)ether	0.637	0.0865	"	0.864	ND	73.7	10-139		27.8	30	
Bis(2-ethylhexyl)phthalate	0.661	0.0865	"	0.864	ND	76.5	10-167		16.7	30	
Caprolactam	0.847	0.173	"	0.864	ND	98.0	10-132		4.59	30	



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21496 - EPA 3546 SVOA											
Matrix Spike Dup (BB21496-M Matrix Spike Dup	*Source sample: 22B0236-01 (Matrix Spike Dup)								Prepared: 02/07/2022 Analyzed: 02/11/2022		
Carbazole	0.703	0.0865	mg/kg dry	0.864	ND	81.4	10-167		18.3	30	
Chrysene	0.666	0.0865	"	0.864	ND	77.1	10-156		15.7	30	
Dibenzo(a,h)anthracene	0.825	0.0865	"	0.864	ND	95.4	10-137		12.0	30	
Dibenzofuran	0.662	0.0865	"	0.864	ND	76.6	10-147		17.6	30	
Diethyl phthalate	0.625	0.0865	"	0.864	ND	72.3	20-120		17.9	30	
Dimethyl phthalate	0.632	0.0865	"	0.864	ND	73.2	18-131		16.5	30	
Di-n-butyl phthalate	0.691	0.0865	"	0.864	ND	80.0	10-137		11.7	30	
Di-n-octyl phthalate	0.666	0.0865	"	0.864	ND	77.0	10-180		25.6	30	
Fluoranthene	0.732	0.0865	"	0.864	ND	84.7	10-160		19.5	30	
Fluorene	0.680	0.0865	"	0.864	ND	78.7	10-157		18.7	30	
Hexachlorobenzene	0.652	0.0865	"	0.864	ND	75.5	10-137		6.36	30	
Hexachlorobutadiene	0.716	0.0865	"	0.864	ND	82.9	10-132		21.1	30	
Hexachlorocyclopentadiene	0.100	0.0865	"	0.864	ND	11.6	10-106		58.9	30	Non-dir.
Hexachloroethane	0.538	0.0865	"	0.864	ND	62.2	10-110		19.2	30	
Indeno(1,2,3-cd)pyrene	0.934	0.0865	"	0.864	ND	108	10-144		11.6	30	
Isophorone	0.680	0.0865	"	0.864	ND	78.7	10-132		16.2	30	
Naphthalene	0.687	0.0865	"	0.864	ND	79.5	10-141		19.8	30	
Nitrobenzene	0.743	0.0865	"	0.864	ND	86.0	10-131		17.3	30	
N-Nitrosodimethylamine	0.697	0.0865	"	0.864	ND	80.6	10-126		27.0	30	
N-nitroso-di-n-propylamine	0.615	0.0865	"	0.864	ND	71.2	10-125		22.2	30	
N-Nitrosodiphenylamine	0.787	0.0865	"	0.864	ND	91.0	10-177		12.2	30	
Pentachlorophenol	0.785	0.0865	"	0.864	ND	90.9	10-153		9.16	30	
Phenanthrene	0.661	0.0865	"	0.864	ND	76.5	10-148		13.6	30	
Phenol	0.771	0.0865	"	0.864	ND	89.2	10-126		25.2	30	
Pyrene	0.610	0.0865	"	0.864	ND	70.6	10-165		11.9	30	
Pyridine	0.601	0.346	"	0.864	ND	69.5	10-83		28.3	30	
Surrogate: SURR: 2-Fluorophenol	*1.61*		"	*1.73*		*93.4*	*20-108*				
Surrogate: SURR: Phenol-d5	*1.41*		"	*1.73*		*81.4*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.829*		"	*0.864*		*95.9*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.672*		"	*0.864*		*77.8*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.79*		"	*1.73*		*103*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.650*		"	*0.864*		*75.3*	*24-116*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21747 - EPA 3510C											
Blank (BB21747-BLK1) Blank									Prepared: 02/10/2022 Analyzed: 02/11/2022		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21747 - EPA 3510C											
Blank (BB21747-BLK1) Blank									Prepared: 02/10/2022 Analyzed: 02/11/2022		
N-Nitrosodiphenylamine	ND	5.00	ug/L								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								
Surrogate: SURR: 2-Fluorophenol	*14.9*		*"*	*50.0*		*29.8*	*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*8.00*		*"*	*50.0*		*16.0*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*14.7*		*"*	*25.0*		*58.8*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*16.7*		*"*	*25.0*		*66.7*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*43.3*		*"*	*50.0*		*86.7*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*18.2*		*"*	*25.0*		*72.6*	*30.7-106*				
Blank (BB21747-BLK2) Blank									Prepared: 02/10/2022 Analyzed: 02/11/2022		
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	0.0600	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21747 - EPA 3510C											
LCS (BB21747-BS1) LCS								Prepared: 02/10/2022 Analyzed: 02/11/2022			
1,1-Biphenyl	12.8	5.00	ug/L	25.0		51.4	33-95				
1,2,4,5-Tetrachlorobenzene	16.2	5.00	"	25.0		64.8	26-120				
1,2,4-Trichlorobenzene	14.1	5.00	"	25.0		56.4	20-118				
1,2-Dichlorobenzene	12.3	5.00	"	25.0		49.0	29-111				
1,2-Diphenylhydrazine (as Azobenzene)	9.34	5.00	"	25.0		37.4	16-141				
1,3-Dichlorobenzene	12.0	5.00	"	25.0		47.9	23-117				
1,4-Dichlorobenzene	12.1	5.00	"	25.0		48.6	30-105				
2,3,4,6-Tetrachlorophenol	11.3	5.00	"	25.0		45.1	30-130				
2,4,5-Trichlorophenol	12.7	5.00	"	25.0		50.9	32-114				
2,4,6-Trichlorophenol	14.8	5.00	"	25.0		59.3	35-118				
2,4-Dichlorophenol	14.9	5.00	"	25.0		59.6	25-116				
2,4-Dimethylphenol	11.3	5.00	"	25.0		45.3	15-116				
2,4-Dinitrophenol	6.72	5.00	"	25.0		26.9	10-170				
2,4-Dinitrotoluene	15.8	5.00	"	25.0		63.3	41-128				
2,6-Dinitrotoluene	15.9	5.00	"	25.0		63.6	45-116				
2-Chloronaphthalene	12.8	5.00	"	25.0		51.0	33-112				
2-Chlorophenol	11.8	5.00	"	25.0		47.3	15-120				
2-Methylnaphthalene	13.5	5.00	"	25.0		53.8	24-118				
2-Methylphenol	9.71	5.00	"	25.0		38.8	10-110				
2-Nitroaniline	14.5	5.00	"	25.0		57.9	34-129				
2-Nitrophenol	16.2	5.00	"	25.0		65.0	28-118				
3- & 4-Methylphenols	8.04	5.00	"	25.0		32.2	10-107				
3,3-Dichlorobenzidine	9.55	5.00	"	25.0		38.2	15-187				
3-Nitroaniline	13.2	5.00	"	25.0		52.7	24-134				
4,6-Dinitro-2-methylphenol	13.5	5.00	"	25.0		54.1	10-153				
4-Bromophenyl phenyl ether	13.7	5.00	"	25.0		54.8	34-120				
4-Chloro-3-methylphenol	15.0	5.00	"	25.0		60.0	20-120				
4-Chloroaniline	12.2	5.00	"	25.0		48.7	10-147				
4-Chlorophenyl phenyl ether	14.6	5.00	"	25.0		58.4	27-121				
4-Nitroaniline	11.8	5.00	"	25.0		47.0	13-134				
4-Nitrophenol	19.6	5.00	"	25.0		78.4	10-131				
Acetophenone	13.0	5.00	"	25.0		52.1	25-110				
Aniline	17.1	5.00	"	25.0		68.2	10-117				
Benzaldehyde	13.7	5.00	"	25.0		54.8	29-117				
Benzoic acid	2.50	5.00	"	25.0		10.0	30-130	Low Bias			
Benzyl alcohol	9.60	5.00	"	25.0		38.4	10-117				
Benzyl butyl phthalate	12.7	5.00	"	25.0		50.7	29-133				
Bis(2-chloroethoxy)methane	11.6	5.00	"	25.0		46.4	10-154				
Bis(2-chloroethyl)ether	23.6	5.00	"	25.0		94.6	17-125				
Bis(2-chloroisopropyl)ether	9.50	5.00	"	25.0		38.0	10-139				
Caprolactam	3.81	5.00	"	25.0		15.2	10-137				
Carbazole	13.0	5.00	"	25.0		52.0	42-126				
Dibenzofuran	13.5	5.00	"	25.0		54.1	36-113				
Diethyl phthalate	12.7	5.00	"	25.0		51.0	38-115				
Dimethyl phthalate	13.5	5.00	"	25.0		53.9	38-129				
Di-n-butyl phthalate	12.7	5.00	"	25.0		50.7	31-120				
Di-n-octyl phthalate	13.8	5.00	"	25.0		55.2	21-149				
Hexachlorocyclopentadiene	ND	10.0	"	25.0			10-130	Low Bias			
Isophorone	11.3	5.00	"	25.0		45.2	25-127				
N-nitroso-di-n-propylamine	9.88	5.00	"	25.0		39.5	26-122				
N-Nitrosodiphenylamine	14.2	5.00	"	25.0		56.9	23-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21747 - EPA 3510C											
LCS (BB21747-BS1) LCS							Prepared: 02/10/2022 Analyzed: 02/11/2022				
Phenol	5.26	5.00	ug/L	25.0		21.0	10-110				
Pyridine	9.47	5.00	"	25.5		37.1	10-90				
Surrogate: SURR: 2-Fluorophenol	*13.4*		*"*	*50.0*		*26.7*	*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*7.90*		*"*	*50.0*		*15.8*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*11.7*		*"*	*25.0*		*46.6*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*13.3*		*"*	*25.0*		*53.2*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*32.9*		*"*	*50.0*		*65.7*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*14.5*		*"*	*25.0*		*58.0*	*30.7-106*				
LCS (BB21747-BS2) LCS							Prepared: 02/10/2022 Analyzed: 02/11/2022				
Acenaphthene	0.770	0.0500	ug/L	1.00		77.0	25-116				
Acenaphthylene	0.840	0.0500	"	1.00		84.0	26-116				
Anthracene	0.810	0.0500	"	1.00		81.0	25-123				
Benzo(a)anthracene	0.910	0.0500	"	1.00		91.0	33-125				
Benzo(a)pyrene	0.720	0.0500	"	1.00		72.0	32-132				
Benzo(b)fluoranthene	0.660	0.0500	"	1.00		66.0	22-137				
Benzo(g,h,i)perylene	0.780	0.0500	"	1.00		78.0	10-138				
Benzo(k)fluoranthene	0.630	0.0500	"	1.00		63.0	20-137				
Bis(2-ethylhexyl)phthalate	1.21	0.500	"	1.00		121	10-189				
Chrysene	0.950	0.0500	"	1.00		95.0	32-124				
Dibenzo(a,h)anthracene	0.800	0.0500	"	1.00		80.0	16-133				
Fluoranthene	0.880	0.0500	"	1.00		88.0	32-121				
Fluorene	0.850	0.0500	"	1.00		85.0	28-118				
Hexachlorobenzene	0.200	0.0200	"	1.00		20.0	23-124	Low Bias			
Hexachlorobutadiene	0.730	0.500	"	1.00		73.0	15-123				
Hexachloroethane	0.750	0.500	"	1.00		75.0	18-115				
Indeno(1,2,3-cd)pyrene	0.710	0.0500	"	1.00		71.0	15-135				
Naphthalene	0.780	0.0500	"	1.00		78.0	18-120				
Nitrobenzene	0.860	0.250	"	1.00		86.0	21-121				
N-Nitrosodimethylamine	0.660	0.500	"	1.00		66.0	10-124				
Pentachlorophenol	0.710	0.250	"	1.00		71.0	10-156				
Phenanthrene	0.820	0.0500	"	1.00		82.0	24-127				
Pyrene	0.920	0.0500	"	1.00		92.0	31-132				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21747 - EPA 3510C											
LCS Dup (BB21747-BSD1) LCS Dup								Prepared: 02/10/2022 Analyzed: 02/11/2022			
1,1-Biphenyl	17.2	5.00	ug/L	25.0		69.0	33-95		29.2	20	Non-dir.
1,2,4,5-Tetrachlorobenzene	21.5	5.00	"	25.0		86.1	26-120		28.2	20	Non-dir.
1,2,4-Trichlorobenzene	18.6	5.00	"	25.0		74.2	20-118		27.2	20	Non-dir.
1,2-Dichlorobenzene	16.0	5.00	"	25.0		64.2	29-111		26.7	20	Non-dir.
1,2-Diphenylhydrazine (as Azobenzene)	12.6	5.00	"	25.0		50.4	16-141		29.7	20	Non-dir.
1,3-Dichlorobenzene	15.6	5.00	"	25.0		62.2	23-117		26.0	20	Non-dir.
1,4-Dichlorobenzene	16.2	5.00	"	25.0		64.7	30-105		28.5	20	Non-dir.
2,3,4,6-Tetrachlorophenol	15.1	5.00	"	25.0		60.4	30-130		29.0	20	Non-dir.
2,4,5-Trichlorophenol	17.1	5.00	"	25.0		68.4	32-114		29.2	20	Non-dir.
2,4,6-Trichlorophenol	19.9	5.00	"	25.0		79.5	35-118		29.2	20	Non-dir.
2,4-Dichlorophenol	19.9	5.00	"	25.0		79.6	25-116		28.8	20	Non-dir.
2,4-Dimethylphenol	14.6	5.00	"	25.0		58.3	15-116		25.2	20	Non-dir.
2,4-Dinitrophenol	11.1	5.00	"	25.0		44.5	10-170		49.4	20	Non-dir.
2,4-Dinitrotoluene	21.2	5.00	"	25.0		84.7	41-128		28.9	20	Non-dir.
2,6-Dinitrotoluene	21.3	5.00	"	25.0		85.2	45-116		29.0	20	Non-dir.
2-Chloronaphthalene	17.1	5.00	"	25.0		68.5	33-112		29.3	20	Non-dir.
2-Chlorophenol	15.6	5.00	"	25.0		62.6	15-120		27.8	20	Non-dir.
2-Methylnaphthalene	17.8	5.00	"	25.0		71.1	24-118		27.6	20	Non-dir.
2-Methylphenol	12.7	5.00	"	25.0		50.8	10-110		26.6	20	Non-dir.
2-Nitroaniline	18.8	5.00	"	25.0		75.2	34-129		26.0	20	Non-dir.
2-Nitrophenol	22.0	5.00	"	25.0		88.2	28-118		30.3	20	Non-dir.
3- & 4-Methylphenols	10.4	5.00	"	25.0		41.7	10-107		25.9	20	Non-dir.
3,3-Dichlorobenzidine	12.8	5.00	"	25.0		51.1	15-187		28.9	20	Non-dir.
3-Nitroaniline	16.7	5.00	"	25.0		66.8	24-134		23.7	20	Non-dir.
4,6-Dinitro-2-methylphenol	19.8	5.00	"	25.0		79.2	10-153		37.7	20	Non-dir.
4-Bromophenyl phenyl ether	18.0	5.00	"	25.0		71.9	34-120		27.0	20	Non-dir.
4-Chloro-3-methylphenol	19.3	5.00	"	25.0		77.2	20-120		25.2	20	Non-dir.
4-Chloroaniline	13.6	5.00	"	25.0		54.4	10-147		10.9	20	
4-Chlorophenyl phenyl ether	19.1	5.00	"	25.0		76.4	27-121		26.8	20	Non-dir.
4-Nitroaniline	15.4	5.00	"	25.0		61.5	13-134		26.8	20	Non-dir.
4-Nitrophenol	23.8	5.00	"	25.0		95.2	10-131		19.3	20	
Acetophenone	17.1	5.00	"	25.0		68.3	25-110		26.9	20	Non-dir.
Aniline	20.9	5.00	"	25.0		83.5	10-117		20.1	20	Non-dir.
Benzaldehyde	18.6	5.00	"	25.0		74.2	29-117		30.1	20	Non-dir.
Benzoic acid	3.32	5.00	"	25.0		13.3	30-130	Low Bias	28.2	20	Non-dir.
Benzyl alcohol	11.8	5.00	"	25.0		47.0	10-117		20.2	20	Non-dir.
Benzyl butyl phthalate	17.4	5.00	"	25.0		69.6	29-133		31.5	20	Non-dir.
Bis(2-chloroethoxy)methane	15.0	5.00	"	25.0		59.8	10-154		25.2	20	Non-dir.
Bis(2-chloroethyl)ether	28.9	5.00	"	25.0		116	17-125		20.1	20	Non-dir.
Bis(2-chloroisopropyl)ether	12.5	5.00	"	25.0		49.9	10-139		27.1	20	Non-dir.
Caprolactam	4.74	5.00	"	25.0		19.0	10-137		21.8	20	Non-dir.
Carbazole	17.3	5.00	"	25.0		69.1	42-126		28.3	20	Non-dir.
Dibenzofuran	18.2	5.00	"	25.0		72.8	36-113		29.6	20	Non-dir.
Diethyl phthalate	17.0	5.00	"	25.0		67.8	38-115		28.4	20	Non-dir.
Dimethyl phthalate	17.9	5.00	"	25.0		71.6	38-129		28.2	20	Non-dir.
Di-n-butyl phthalate	17.0	5.00	"	25.0		68.2	31-120		29.4	20	Non-dir.
Di-n-octyl phthalate	18.8	5.00	"	25.0		75.3	21-149		30.7	20	Non-dir.
Hexachlorocyclopentadiene	ND	10.0	"	25.0			10-130	Low Bias		20	
Isophorone	15.0	5.00	"	25.0		59.8	25-127		27.8	20	Non-dir.
N-nitroso-di-n-propylamine	12.9	5.00	"	25.0		51.5	26-122		26.3	20	Non-dir.
N-Nitrosodiphenylamine	19.2	5.00	"	25.0		76.8	23-149		29.9	20	Non-dir.

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21747 - EPA 3510C											
LCS Dup (BB21747-BSD1) LCS Dup									Prepared: 02/10/2022 Analyzed: 02/11/2022		
Phenol	6.43	5.00	ug/L	25.0		25.7	10-110		20.0	20	
Pyridine	11.4	5.00	"	25.5		44.9	10-90		18.9	20	
Surrogate: SURR: 2-Fluorophenol	*17.8*		*"*	*50.0*		*35.5*	*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*10.0*		*"*	*50.0*		*20.1*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*15.2*		*"*	*25.0*		*60.8*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*17.4*		*"*	*25.0*		*69.6*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*43.8*		*"*	*50.0*		*87.6*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*18.7*		*"*	*25.0*		*74.8*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21656 - EPA 3550C											
Blank (BB21656-BLK1) Blank								Prepared: 02/09/2022 Analyzed: 02/11/2022			
1,4-Dioxane	ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8	*455*		*"*	*495*		*92.0*	*39-127.5*				
LCS (BB21656-BS1) LCS								Prepared: 02/09/2022 Analyzed: 02/11/2022			
1,4-Dioxane	544	19.8	ug/kg	495		110	40-130				
Surrogate: 1,4-Dioxane-d8	*406*		*"*	*495*		*82.0*	*39-127.5*				
Matrix Spike (BB21656-MS1) Matrix Spike *Source sample: 22B0289-01 (Matrix Spike)								Prepared: 02/09/2022 Analyzed: 02/11/2022			
1,4-Dioxane	508	19.8	ug/kg	495	ND	103	40-130				
Surrogate: 1,4-Dioxane-d8	*396*		*"*	*495*		*80.0*	*40-130*				
Matrix Spike Dup (BB21656-M Matrix Spike Dup *Source sample: 22B0289-01 (Matrix Spike Dup)								Prepared: 02/09/2022 Analyzed: 02/11/2022			
1,4-Dioxane	507	19.8	ug/kg	495	ND	102	40-130		0.195	30	
Surrogate: 1,4-Dioxane-d8	*416*		*"*	*495*		*84.0*	*40-130*				
Batch BB21707 - EPA 3535A											
Blank (BB21707-BLK1) Blank								Prepared: 02/10/2022 Analyzed: 02/11/2022			
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*3.68*		*"*	*4.00*		*92.0*	*36.6-118*				
LCS (BB21707-BS1) LCS								Prepared: 02/10/2022 Analyzed: 02/11/2022			
1,4-Dioxane	4.19	0.300	ug/L	4.00		105	50-130				
Surrogate: 1,4-Dioxane-d8	*3.36*		*"*	*4.00*		*84.0*	*36.6-118*				
Matrix Spike (BB21707-MS1) Matrix Spike *Source sample: 22B0396-01 (Matrix Spike)								Prepared: 02/10/2022 Analyzed: 02/14/2022			
1,4-Dioxane	4.16	0.300	ug/L	4.00	ND	104	50-130				
Surrogate: 1,4-Dioxane-d8	*3.84*		*"*	*4.00*		*96.0*	*50-130*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21707 - EPA 3535A											
Matrix Spike Dup (BB21707-M Matrix Spike Dup	*Source sample: 22B0396-01 (Matrix Spike Dup)								Prepared: 02/10/2022 Analyzed: 02/14/2022		
1,4-Dioxane	4.19	0.300	ug/L	4.00	ND	105	50-130		0.766	30	
Surrogate: 1,4-Dioxane-d8	*3.36*		*"*	*4.00*		*84.0*	*50-130*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21486 - SPE Ext-PFAS-EPA 537.1M											
Blank (BB21486-BLK1) Blank									Prepared & Analyzed: 02/07/2022		
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	5.00	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Surrogate: M3PFBS	*70.2*		"	*74.3*		*94.5*	*25-150*				
Surrogate: M5PFHxA	*75.9*		"	*80.0*		*94.9*	*25-150*				
Surrogate: M4PFHpA	*78.3*		"	*80.0*		*97.8*	*25-150*				
Surrogate: M3PFHxS	*70.6*		"	*75.7*		*93.3*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*80.3*		"	*80.0*		*100*	*25-150*				
Surrogate: M6PFDA	*75.6*		"	*80.0*		*94.4*	*25-150*				
Surrogate: M7PFUdA	*71.8*		"	*80.0*		*89.7*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*57.7*		"	*80.0*		*72.2*	*25-150*				
Surrogate: M2PFTeDA	*46.4*		"	*80.0*		*58.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*81.4*		"	*80.0*		*102*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*77.8*		"	*76.6*		*102*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*80.8*		"	*80.0*		*101*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*15.0*		"	*80.0*		*18.8*	*10-150*				
Surrogate: d3-N-MeFOSAA	*59.7*		"	*80.0*		*74.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*50.6*		"	*80.0*		*63.3*	*25-150*				
Surrogate: M2-6:2 FTS	*64.9*		"	*75.9*		*85.5*	*25-200*				
Surrogate: M2-8:2 FTS	*65.5*		"	*76.6*		*85.4*	*25-200*				
Surrogate: M9PFNA	*90.5*		"	*80.0*		*113*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21486 - SPE Ext-PFAS-EPA 537.1M											
LCS (BB21486-BS1) LCS							Prepared & Analyzed: 02/07/2022				
Perfluorobutanesulfonic acid (PFBS)	70.4	2.00	ng/L	70.8		99.4	50-130				
Perfluorohexanoic acid (PFHxA)	74.8	2.00	"	80.0		93.5	50-130				
Perfluoroheptanoic acid (PFHpA)	77.6	2.00	"	80.0		97.0	50-130				
Perfluorohexanesulfonic acid (PFHxS)	66.8	2.00	"	72.8		91.8	50-130				
Perfluorooctanoic acid (PFOA)	71.5	2.00	"	80.0		89.3	50-130				
Perfluorooctanesulfonic acid (PFOS)	85.0	2.00	"	74.0		115	50-130				
Perfluorononanoic acid (PFNA)	64.3	2.00	"	80.0		80.4	50-130				
Perfluorodecanoic acid (PFDA)	74.4	2.00	"	80.0		93.0	50-130				
Perfluoroundecanoic acid (PFUnA)	85.6	2.00	"	80.0		107	50-130				
Perfluorododecanoic acid (PFDoA)	78.7	2.00	"	80.0		98.4	50-130				
Perfluorotridecanoic acid (PFTrDA)	73.9	2.00	"	80.0		92.4	50-130				
Perfluorotetradecanoic acid (PFTA)	83.5	2.00	"	80.0		104	50-130				
N-MeFOSAA	81.6	2.00	"	80.0		102	50-130				
N-EtFOSAA	90.1	2.00	"	80.0		113	50-130				
Perfluoropentanoic acid (PFPeA)	77.4	2.00	"	80.0		96.7	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	76.5	2.00	"	80.0		95.6	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	83.1	2.00	"	76.4		109	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	54.9	2.00	"	77.2		71.1	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	56.0	5.00	"	76.0		73.6	50-175				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	72.7	2.00	"	76.8		94.6	50-175				
Perfluoro-n-butanoic acid (PFBA)	76.7	2.00	"	80.0		95.9	50-130				
Surrogate: M3PFBS	*65.5*		*"*	*74.3*		*88.2*	*25-150*				
Surrogate: M5PFHxA	*74.1*		*"*	*80.0*		*92.7*	*25-150*				
Surrogate: M4PFHpA	*72.3*		*"*	*80.0*		*90.4*	*25-150*				
Surrogate: M3PFHxS	*73.5*		*"*	*75.7*		*97.1*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*82.9*		*"*	*80.0*		*104*	*25-150*				
Surrogate: M6PFDA	*80.2*		*"*	*80.0*		*100*	*25-150*				
Surrogate: M7PFUdA	*64.8*		*"*	*80.0*		*81.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*63.0*		*"*	*80.0*		*78.8*	*25-150*				
Surrogate: M2PFTeDA	*48.2*		*"*	*80.0*		*60.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*76.0*		*"*	*80.0*		*95.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*79.9*		*"*	*76.6*		*104*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*76.2*		*"*	*80.0*		*95.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*20.0*		*"*	*80.0*		*25.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*62.4*		*"*	*80.0*		*78.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*53.6*		*"*	*80.0*		*67.0*	*25-150*				
Surrogate: M2-6:2 FTS	*92.8*		*"*	*75.9*		*122*	*25-200*				
Surrogate: M2-8:2 FTS	*93.1*		*"*	*76.6*		*122*	*25-200*				
Surrogate: M9PFNA	*91.9*		*"*	*80.0*		*115*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21486 - SPE Ext-PFAS-EPA 537.1M											
LCS Dup (BB21486-BSD1) LCS Dup							Prepared & Analyzed: 02/07/2022				
Perfluorobutanesulfonic acid (PFBS)	68.9	2.00	ng/L	70.8		97.3	50-130		2.21	30	
Perfluorohexanoic acid (PFHxA)	71.4	2.00	"	80.0		89.2	50-130		4.68	30	
Perfluoroheptanoic acid (PFHpA)	73.9	2.00	"	80.0		92.4	50-130		4.90	30	
Perfluorohexanesulfonic acid (PFHxS)	68.3	2.00	"	72.8		93.8	50-130		2.15	30	
Perfluorooctanoic acid (PFOA)	69.1	2.00	"	80.0		86.4	50-130		3.36	30	
Perfluorooctanesulfonic acid (PFOS)	71.1	2.00	"	74.0		96.1	50-130		17.7	30	
Perfluorononanoic acid (PFNA)	62.9	2.00	"	80.0		78.7	50-130		2.16	30	
Perfluorodecanoic acid (PFDA)	72.9	2.00	"	80.0		91.2	50-130		2.02	30	
Perfluoroundecanoic acid (PFUnA)	71.4	2.00	"	80.0		89.3	50-130		18.0	30	
Perfluorododecanoic acid (PFDoA)	70.8	2.00	"	80.0		88.5	50-130		10.6	30	
Perfluorotridecanoic acid (PFTrDA)	70.3	2.00	"	80.0		87.9	50-130		4.99	30	
Perfluorotetradecanoic acid (PFTA)	73.2	2.00	"	80.0		91.5	50-130		13.1	30	
N-MeFOSAA	72.1	2.00	"	80.0		90.2	50-130		12.3	30	
N-EtFOSAA	90.7	2.00	"	80.0		113	50-130		0.753	30	
Perfluoropentanoic acid (PFPeA)	76.3	2.00	"	80.0		95.3	50-130		1.49	30	
Perfluoro-1-octanesulfonamide (FOSA)	78.5	2.00	"	80.0		98.2	50-130		2.66	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	82.5	2.00	"	76.4		108	50-130		0.771	30	
Perfluoro-1-decanesulfonic acid (PFDS)	52.4	2.00	"	77.2		67.8	50-130		4.68	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	58.1	5.00	"	76.0		76.5	50-175		3.77	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	89.8	2.00	"	76.8		117	50-175		21.0	30	
Perfluoro-n-butanoic acid (PFBA)	74.1	2.00	"	80.0		92.6	50-130		3.53	30	
Surrogate: M3PFBS	*72.4*		*"*	*74.3*		*97.4*	*25-150*				
Surrogate: M5PFHxA	*80.5*		*"*	*80.0*		*101*	*25-150*				
Surrogate: M4PFHpA	*81.3*		*"*	*80.0*		*102*	*25-150*				
Surrogate: M3PFHxS	*73.1*		*"*	*75.7*		*96.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*81.2*		*"*	*80.0*		*101*	*25-150*				
Surrogate: M6PFDA	*73.1*		*"*	*80.0*		*91.4*	*25-150*				
Surrogate: M7PFUdA	*67.3*		*"*	*80.0*		*84.1*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*63.6*		*"*	*80.0*		*79.5*	*25-150*				
Surrogate: M2PFTeDA	*49.8*		*"*	*80.0*		*62.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*80.6*		*"*	*80.0*		*101*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*74.5*		*"*	*76.6*		*97.3*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*79.2*		*"*	*80.0*		*99.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*15.9*		*"*	*80.0*		*19.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*55.8*		*"*	*80.0*		*69.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*47.8*		*"*	*80.0*		*59.8*	*25-150*				
Surrogate: M2-6:2 FTS	*82.3*		*"*	*75.9*		*108*	*25-200*				
Surrogate: M2-8:2 FTS	*74.3*		*"*	*76.6*		*97.0*	*25-200*				
Surrogate: M9PFNA	*89.7*		*"*	*80.0*		*112*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BB21569 - SPE PFAS Extraction-Soil-EPA 537m

Blank (BB21569-BLK1) Blank — Prepared: 02/08/2022 Analyzed: 02/10/2022

Perfluorobutanesulfonic acid (PFBS)	ND	0.246	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.246	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.246	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.246	"								
Perfluorooctanoic acid (PFOA)	ND	0.246	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.246	"								
Perfluorononanoic acid (PFNA)	ND	0.246	"								
Perfluorodecanoic acid (PFDA)	ND	0.246	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.246	"								
Perfluorododecanoic acid (PFDoA)	ND	0.246	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.246	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.246	"								
N-MeFOSAA	ND	0.246	"								
N-EtFOSAA	ND	0.246	"								
Perfluoropentanoic acid (PFPeA)	ND	0.246	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.246	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.246	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.246	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.246	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.246	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.246	"								
Surrogate: M3PFBS	*4.77*		"	*4.58*		*104*	*25-150*				
Surrogate: M5PFHxA	*5.30*		"	*4.93*		*108*	*25-150*				
Surrogate: M4PFHpA	*4.82*		"	*4.93*		*97.9*	*25-150*				
Surrogate: M3PFHxS	*4.89*		"	*4.66*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.79*		"	*4.93*		*97.3*	*25-150*				
Surrogate: M6PFDA	*5.16*		"	*4.93*		*105*	*25-150*				
Surrogate: M7PFUdA	*5.16*		"	*4.93*		*105*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*4.87*		"	*4.93*		*98.9*	*25-150*				
Surrogate: M2PFTeDA	*3.45*		"	*4.93*		*70.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.06*		"	*4.93*		*103*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*5.42*		"	*4.71*		*115*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.43*		"	*4.93*		*110*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*4.66*		"	*4.93*		*94.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.47*		"	*4.93*		*111*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.79*		"	*4.93*		*97.2*	*25-150*				
Surrogate: M2-6:2 FTS	*4.20*		"	*4.68*		*89.8*	*25-200*				
Surrogate: M2-8:2 FTS	*5.35*		"	*4.72*		*113*	*25-200*				
Surrogate: M9PFNA	*5.63*		"	*4.93*		*114*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21569 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BB21569-BS1) LCS								Prepared: 02/08/2022 Analyzed: 02/10/2022			
Perfluorobutanesulfonic acid (PFBS)	4.28	0.234	ug/kg wet	4.15		103	50-130				
Perfluorohexanoic acid (PFHxA)	4.25	0.234	"	4.69		90.6	50-130				
Perfluoroheptanoic acid (PFHpA)	4.91	0.234	"	4.69		105	50-130				
Perfluorohexanesulfonic acid (PFHxS)	3.79	0.234	"	4.27		88.9	50-130				
Perfluorooctanoic acid (PFOA)	4.62	0.234	"	4.69		98.6	50-130				
Perfluorooctanesulfonic acid (PFOS)	5.71	0.234	"	4.34		132	50-130	High Bias			
Perfluorononanoic acid (PFNA)	3.97	0.234	"	4.69		84.7	50-130				
Perfluorodecanoic acid (PFDA)	4.53	0.234	"	4.69		96.6	50-130				
Perfluoroundecanoic acid (PFUnA)	4.24	0.234	"	4.69		90.5	50-130				
Perfluorododecanoic acid (PFDoA)	4.45	0.234	"	4.69		95.0	50-130				
Perfluorotridecanoic acid (PFTrDA)	3.55	0.234	"	4.69		75.7	50-130				
Perfluorotetradecanoic acid (PFTA)	4.50	0.234	"	4.69		96.0	50-130				
N-MeFOSAA	4.28	0.234	"	4.69		91.3	50-130				
N-EtFOSAA	6.34	0.234	"	4.69		135	50-130	High Bias			
Perfluoropentanoic acid (PFPeA)	4.56	0.234	"	4.69		97.2	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	3.98	0.234	"	4.69		84.9	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.64	0.234	"	4.48		104	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	3.93	0.234	"	4.52		86.9	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	3.99	0.234	"	4.45		89.6	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	3.51	0.234	"	4.50		78.1	50-200				
Perfluoro-n-butanoic acid (PFBA)	4.66	0.234	"	4.69		99.4	50-130				
Surrogate: M3PFBS	*3.77*		*"*	*4.35*		*86.6*	*25-150*				
Surrogate: M5PFHxA	*4.43*		*"*	*4.69*		*94.6*	*25-150*				
Surrogate: M4PFHpA	*3.89*		*"*	*4.69*		*83.0*	*25-150*				
Surrogate: M3PFHxS	*4.51*		*"*	*4.43*		*102*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.16*		*"*	*4.69*		*88.7*	*25-150*				
Surrogate: M6PFDA	*4.45*		*"*	*4.69*		*94.9*	*25-150*				
Surrogate: M7PFUdA	*4.84*		*"*	*4.69*		*103*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.91*		*"*	*4.69*		*83.5*	*25-150*				
Surrogate: M2PFTeDA	*2.91*		*"*	*4.69*		*62.1*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.17*		*"*	*4.69*		*89.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*4.10*		*"*	*4.49*		*91.3*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.26*		*"*	*4.69*		*90.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.93*		*"*	*4.69*		*83.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.74*		*"*	*4.69*		*101*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.96*		*"*	*4.69*		*84.4*	*25-150*				
Surrogate: M2-6:2 FTS	*4.40*		*"*	*4.45*		*98.9*	*25-200*				
Surrogate: M2-8:2 FTS	*5.01*		*"*	*4.49*		*112*	*25-200*				
Surrogate: M9PFNA	*4.71*		*"*	*4.69*		*101*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21569 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BB21569-MS1) Matrix Spike	*Source sample: 22B0289-01 (Matrix Spike)								Prepared: 02/08/2022 Analyzed: 02/10/2022		
Perfluorobutanesulfonic acid (PFBS)	5.62	0.297	ug/kg dry	5.26	ND	107	25-150				
Perfluorohexanoic acid (PFHxA)	5.71	0.297	"	5.95	ND	96.0	25-150				
Perfluoroheptanoic acid (PFHpA)	6.88	0.297	"	5.95	ND	116	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.98	0.297	"	5.41	ND	92.0	25-150				
Perfluorooctanoic acid (PFOA)	5.85	0.297	"	5.95	0.432	91.2	25-150				
Perfluorooctanesulfonic acid (PFOS)	8.61	0.297	"	5.50	0.773	142	25-150				
Perfluorononanoic acid (PFNA)	5.43	0.297	"	5.95	ND	91.4	25-150				
Perfluorodecanoic acid (PFDA)	6.17	0.297	"	5.95	ND	104	25-150				
Perfluoroundecanoic acid (PFUnA)	6.27	0.297	"	5.95	ND	105	25-150				
Perfluorododecanoic acid (PFDoA)	5.52	0.297	"	5.95	ND	92.9	25-150				
Perfluorotridecanoic acid (PFTrDA)	4.49	0.297	"	5.95	ND	75.5	25-150				
Perfluorotetradecanoic acid (PFTA)	6.47	0.297	"	5.95	ND	109	25-150				
N-MeFOSAA	5.62	0.297	"	5.95	ND	94.5	25-150				
N-EtFOSAA	8.90	0.297	"	5.95	ND	150	25-150				
Perfluoropentanoic acid (PFPeA)	6.06	0.297	"	5.95	ND	102	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	6.63	0.297	"	5.95	ND	112	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	7.34	0.297	"	5.68	ND	129	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.41	0.297	"	5.74	ND	76.9	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	3.16	0.297	"	5.65	ND	55.9	25-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	6.56	0.297	"	5.71	ND	115	25-200				
Perfluoro-n-butanoic acid (PFBA)	6.55	0.297	"	5.95	ND	110	25-150				
Surrogate: M3PFBS	*4.22*		"	*5.52*		*76.5*	*25-150*				
Surrogate: M5PFHxA	*4.85*		"	*5.95*		*81.5*	*25-150*				
Surrogate: M4PFHpA	*4.16*		"	*5.95*		*69.9*	*25-150*				
Surrogate: M3PFHxS	*5.05*		"	*5.62*		*89.8*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*5.38*		"	*5.95*		*90.5*	*25-150*				
Surrogate: M6PFDA	*5.38*		"	*5.95*		*90.5*	*25-150*				
Surrogate: M7PFUdA	*4.58*		"	*5.95*		*77.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*4.42*		"	*5.95*		*74.3*	*25-150*				
Surrogate: M2PFTeDA	*3.10*		"	*5.95*		*52.1*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.51*		"	*5.95*		*75.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*5.16*		"	*5.69*		*90.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.44*		"	*5.95*		*74.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.48*		"	*5.95*		*58.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.48*		"	*5.95*		*92.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.58*		"	*5.95*		*77.1*	*25-150*				
Surrogate: M2-6:2 FTS	*8.69*		"	*5.64*		*154*	*25-200*				
Surrogate: M2-8:2 FTS	*7.09*		"	*5.70*		*124*	*25-200*				
Surrogate: M9PFNA	*5.68*		"	*5.95*		*95.6*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BB21569 - SPE PFAS Extraction-Soil-EPA 537m

Matrix Spike Dup (BB21569-M Matrix Spike Dup *Source sample: 22B0289-01 (Matrix Spike Dup) Prepared: 02/08/2022 Analyzed: 02/10/2022

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Perfluorobutanesulfonic acid (PFBS)	4.69	0.309	ug/kg dry	5.47	ND	85.8	25-150		18.0	35	
Perfluorohexanoic acid (PFHxA)	4.85	0.309	"	6.18	ND	78.5	25-150		16.2	35	
Perfluoroheptanoic acid (PFHpA)	6.00	0.309	"	6.18	ND	97.1	25-150		13.7	35	
Perfluorohexanesulfonic acid (PFHxS)	4.83	0.309	"	5.63	ND	85.9	25-150		2.91	35	
Perfluorooctanoic acid (PFOA)	5.92	0.309	"	6.18	0.432	88.7	25-150		1.06	35	
Perfluorooctanesulfonic acid (PFOS)	7.27	0.309	"	5.72	0.773	114	25-150		16.9	35	
Perfluorononanoic acid (PFNA)	5.32	0.309	"	6.18	ND	86.0	25-150		2.16	35	
Perfluorodecanoic acid (PFDA)	5.99	0.309	"	6.18	ND	96.9	25-150		2.92	35	
Perfluoroundecanoic acid (PFUnA)	6.00	0.309	"	6.18	ND	97.0	25-150		4.40	35	
Perfluorododecanoic acid (PFDoA)	5.50	0.309	"	6.18	ND	89.0	25-150		0.435	35	
Perfluorotridecanoic acid (PFTrDA)	5.12	0.309	"	6.18	ND	82.8	25-150		13.1	35	
Perfluorotetradecanoic acid (PFTA)	5.99	0.309	"	6.18	ND	96.9	25-150		7.78	35	
N-MeFOSAA	5.76	0.309	"	6.18	ND	93.2	25-150		2.51	35	
N-EtFOSAA	6.77	0.309	"	6.18	ND	110	25-150		27.2	35	
Perfluoropentanoic acid (PFPeA)	6.18	0.309	"	6.18	ND	99.9	25-150		1.85	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.63	0.309	"	6.18	ND	91.2	25-150		16.3	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.56	0.309	"	5.90	ND	111	25-150		11.2	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.36	0.309	"	5.97	ND	73.0	25-150		1.30	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	4.84	0.309	"	5.87	ND	82.4	25-200		42.0	35	Non-dir.
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	5.01	0.309	"	5.93	ND	84.4	25-200		26.8	35	
Perfluoro-n-butanoic acid (PFBA)	6.19	0.309	"	6.18	ND	100	25-150		5.61	35	
Surrogate: M3PFBS	*4.72*		*"*	*5.74*		*82.1*	*25-150*				
Surrogate: M5PFHxA	*5.47*		*"*	*6.18*		*88.4*	*25-150*				
Surrogate: M4PFHpA	*4.65*		*"*	*6.18*		*75.3*	*25-150*				
Surrogate: M3PFHxS	*5.33*		*"*	*5.85*		*91.1*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*5.34*		*"*	*6.18*		*86.3*	*25-150*				
Surrogate: M6PFDA	*5.30*		*"*	*6.18*		*85.8*	*25-150*				
Surrogate: M7PFUdA	*4.68*		*"*	*6.18*		*75.7*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*4.19*		*"*	*6.18*		*67.8*	*25-150*				
Surrogate: M2PFTeDA	*3.25*		*"*	*6.18*		*52.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.61*		*"*	*6.18*		*74.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*4.97*		*"*	*5.92*		*84.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.48*		*"*	*6.18*		*72.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*4.00*		*"*	*6.18*		*64.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.30*		*"*	*6.18*		*85.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.50*		*"*	*6.18*		*88.9*	*25-150*				
Surrogate: M2-6:2 FTS	*5.32*		*"*	*5.87*		*90.7*	*25-200*				
Surrogate: M2-8:2 FTS	*7.75*		*"*	*5.92*		*131*	*25-200*				
Surrogate: M9PFNA	*5.16*		*"*	*6.18*		*83.4*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21494 - EPA 3550C											
Blank (BB21494-BLK1) Blank									Prepared: 02/07/2022 Analyzed: 02/08/2022		
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0245*		*"*	*0.0664*		*36.9*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0224*		*"*	*0.0664*		*33.6*	*30-150*				
LCS (BB21494-BS1) LCS									Prepared: 02/07/2022 Analyzed: 02/08/2022		
4,4'-DDD	0.0137	0.00164	mg/kg wet	0.0332		41.1	40-140				
4,4'-DDE	0.0135	0.00164	"	0.0332		40.5	40-140				
4,4'-DDT	0.0144	0.00164	"	0.0332		43.5	40-140				
Aldrin	0.0142	0.00164	"	0.0332		42.8	40-140				
alpha-BHC	0.0142	0.00164	"	0.0332		42.8	40-140				
alpha-Chlordane	0.0140	0.00164	"	0.0332		42.2	40-140				
beta-BHC	0.0140	0.00164	"	0.0332		42.0	40-140				
delta-BHC	0.0138	0.00164	"	0.0332		41.4	40-140				
Dieldrin	0.0137	0.00164	"	0.0332		41.3	40-140				
Endosulfan I	0.0147	0.00164	"	0.0332		44.4	40-140				
Endosulfan II	0.0135	0.00164	"	0.0332		40.6	40-140				
Endosulfan sulfate	0.0135	0.00164	"	0.0332		40.7	40-140				
Endrin	0.0134	0.00164	"	0.0332		40.3	40-140				
Endrin aldehyde	0.0165	0.00164	"	0.0332		49.7	40-140				
Endrin ketone	0.0156	0.00164	"	0.0332		47.1	40-140				
gamma-BHC (Lindane)	0.0143	0.00164	"	0.0332		43.2	40-140				
gamma-Chlordane	0.0139	0.00164	"	0.0332		42.0	40-140				
Heptachlor	0.0135	0.00164	"	0.0332		40.6	40-140				
Heptachlor epoxide	0.0144	0.00164	"	0.0332		43.3	40-140				
Methoxychlor	0.0136	0.00164	"	0.0332		40.9	40-140				
Surrogate: Decachlorobiphenyl	*0.0232*		*"*	*0.0664*		*34.9*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0201*		*"*	*0.0664*		*30.2*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21581 - EPA SW846-3510C Low Level											
Blank (BB21581-BLK1) Blank									Prepared: 02/08/2022 Analyzed: 02/09/2022		
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.127*		*"*	*0.200*		*63.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.133*		*"*	*0.200*		*66.5*	*30-150*				
Blank (BB21581-BLK2) Blank									Prepared: 02/08/2022 Analyzed: 02/09/2022		
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.00*		*"*	*0.200*			*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.00*		*"*	*0.200*			*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21581 - EPA SW846-3510C Low Level											
LCS (BB21581-BS1) LCS									Prepared: 02/08/2022 Analyzed: 02/09/2022		
4,4'-DDD	0.0834	0.00400	ug/L	0.100		83.4	40-140				
4,4'-DDE	0.0912	0.00400	"	0.100		91.2	40-140				
4,4'-DDT	0.101	0.00400	"	0.100		101	40-140				
Aldrin	0.0850	0.00400	"	0.100		85.0	40-140				
alpha-BHC	0.0918	0.00400	"	0.100		91.8	40-140				
alpha-Chlordane	0.0872	0.00400	"	0.100		87.2	40-140				
beta-BHC	0.0861	0.00400	"	0.100		86.1	40-140				
delta-BHC	0.0875	0.00400	"	0.100		87.5	40-140				
Dieldrin	0.0922	0.00200	"	0.100		92.2	40-140				
Endosulfan I	0.0895	0.00400	"	0.100		89.5	40-140				
Endosulfan II	0.0889	0.00400	"	0.100		88.9	40-140				
Endosulfan sulfate	0.0743	0.00400	"	0.100		74.3	40-140				
Endrin	0.105	0.00400	"	0.100		105	40-140				
Endrin aldehyde	0.0946	0.0100	"	0.100		94.6	40-140				
Endrin ketone	0.0991	0.0100	"	0.100		99.1	40-140				
gamma-BHC (Lindane)	0.0960	0.00400	"	0.100		96.0	40-140				
gamma-Chlordane	0.0878	0.0100	"	0.100		87.8	40-140				
Heptachlor	0.0967	0.00400	"	0.100		96.7	40-140				
Heptachlor epoxide	0.0928	0.00400	"	0.100		92.8	40-140				
Methoxychlor	0.114	0.00400	"	0.100		114	40-140				
Surrogate: Decachlorobiphenyl	*0.113*		*"*	*0.200*		*56.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.114*		*"*	*0.200*		*56.8*	*30-150*				
LCS (BB21581-BS2) LCS									Prepared: 02/08/2022 Analyzed: 02/09/2022		
4,4'-DDD	ND	0.00400	ug/L				40-140				
4,4'-DDE	ND	0.00400	"				40-140				
4,4'-DDT	ND	0.00400	"				40-140				
Aldrin	ND	0.00400	"				40-140				
alpha-BHC	ND	0.00400	"				40-140				
alpha-Chlordane	ND	0.00400	"				40-140				
beta-BHC	ND	0.00400	"				40-140				
delta-BHC	ND	0.00400	"				40-140				
Dieldrin	ND	0.00200	"				40-140				
Endosulfan I	ND	0.00400	"				40-140				
Endosulfan II	ND	0.00400	"				40-140				
Endosulfan sulfate	ND	0.00400	"				40-140				
Endrin	ND	0.00400	"				40-140				
Endrin aldehyde	ND	0.0100	"				40-140				
Endrin ketone	ND	0.0100	"				40-140				
gamma-BHC (Lindane)	ND	0.00400	"				40-140				
gamma-Chlordane	ND	0.0100	"				40-140				
Heptachlor	ND	0.00400	"				40-140				
Heptachlor epoxide	ND	0.00400	"				40-140				
Methoxychlor	ND	0.00400	"				40-140				
Surrogate: Decachlorobiphenyl	*0.00*		*"*	*0.200*			*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.00*		*"*	*0.200*			*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21581 - EPA SW846-3510C Low Level											
LCS Dup (BB21581-BSD1) LCS Dup								Prepared: 02/08/2022 Analyzed: 02/09/2022			
4,4'-DDD	0.100	0.00400	ug/L	0.100		100	40-140		18.2	20	
4,4'-DDE	0.102	0.00400	"	0.100		102	40-140		11.4	20	
4,4'-DDT	0.116	0.00400	"	0.100		116	40-140		14.1	20	
Aldrin	0.0939	0.00400	"	0.100		93.9	40-140		9.97	20	
alpha-BHC	0.0991	0.00400	"	0.100		99.1	40-140		7.68	20	
alpha-Chlordane	0.0992	0.00400	"	0.100		99.2	40-140		12.9	20	
beta-BHC	0.117	0.00400	"	0.100		117	40-140		30.1	20	Non-dir.
delta-BHC	0.116	0.00400	"	0.100		116	40-140		28.0	20	Non-dir.
Dieldrin	0.103	0.00200	"	0.100		103	40-140		10.9	20	
Endosulfan I	0.0979	0.00400	"	0.100		97.9	40-140		9.02	20	
Endosulfan II	0.0999	0.00400	"	0.100		99.9	40-140		11.6	20	
Endosulfan sulfate	0.0854	0.00400	"	0.100		85.4	40-140		13.9	20	
Endrin	0.118	0.00400	"	0.100		118	40-140		11.9	20	
Endrin aldehyde	0.111	0.0100	"	0.100		111	40-140		15.9	20	
Endrin ketone	0.116	0.0100	"	0.100		116	40-140		15.8	20	
gamma-BHC (Lindane)	0.108	0.00400	"	0.100		108	40-140		11.4	20	
gamma-Chlordane	0.100	0.0100	"	0.100		100	40-140		13.3	20	
Heptachlor	0.121	0.00400	"	0.100		121	40-140		21.9	20	Non-dir.
Heptachlor epoxide	0.101	0.00400	"	0.100		101	40-140		8.88	20	
Methoxychlor	0.124	0.00400	"	0.100		124	40-140		8.50	20	
Surrogate: Decachlorobiphenyl	*0.126*		*"*	*0.200*		*63.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.110*		*"*	*0.200*		*54.9*	*30-150*				
LCS Dup (BB21581-BSD2) LCS Dup								Prepared: 02/08/2022 Analyzed: 02/09/2022			
4,4'-DDD	ND	0.00400	ug/L				40-140			20	
4,4'-DDE	ND	0.00400	"				40-140			20	
4,4'-DDT	ND	0.00400	"				40-140			20	
Aldrin	ND	0.00400	"				40-140			20	
alpha-BHC	ND	0.00400	"				40-140			20	
alpha-Chlordane	ND	0.00400	"				40-140			20	
beta-BHC	ND	0.00400	"				40-140			20	
delta-BHC	ND	0.00400	"				40-140			20	
Dieldrin	ND	0.00200	"				40-140			20	
Endosulfan I	ND	0.00400	"				40-140			20	
Endosulfan II	ND	0.00400	"				40-140			20	
Endosulfan sulfate	ND	0.00400	"				40-140			20	
Endrin	ND	0.00400	"				40-140			20	
Endrin aldehyde	ND	0.0100	"				40-140			20	
Endrin ketone	ND	0.0100	"				40-140			20	
gamma-BHC (Lindane)	ND	0.00400	"				40-140			20	
gamma-Chlordane	ND	0.0100	"				40-140			20	
Heptachlor	ND	0.00400	"				40-140			20	
Heptachlor epoxide	ND	0.00400	"				40-140			20	
Methoxychlor	ND	0.00400	"				40-140			20	
Surrogate: Decachlorobiphenyl	*0.00*		*"*	*0.200*			*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.00*		*"*	*0.200*			*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y2B0801 - BB21154											
Performance Mix (Y2B0801-P Performance Mix							Prepared & Analyzed: 02/07/2022				
4,4'-DDD	17.4		ng/mL	0.00			0-200				
4,4'-DDE	2.85		"	0.00			0-200				
4,4'-DDT	227		"	200		113	0-200				
Endrin	142		"	100		142	0-200				
Endrin aldehyde	7.48		"	0.00			0-200				
Endrin ketone	18.5		"	0.00			0-200				
Surrogate: Decachlorobiphenyl	*276*		*"*	*200*		*138*	*0-200*				
Surrogate: Tetrachloro-m-xylene	*277*		*"*	*200*		*139*	*0-200*				
Batch Y2B0919 - BB21553											
Performance Mix (Y2B0919-P Performance Mix							Prepared & Analyzed: 02/08/2022				
4,4'-DDD	15.6		ng/mL	0.00			0-200				
4,4'-DDE	2.56		"	0.00			0-200				
4,4'-DDT	185		"	200		92.3	0-200				
Endrin	132		"	100		132	0-200				
Endrin aldehyde	8.82		"	0.00			0-200				
Endrin ketone	16.6		"	0.00			0-200				
Surrogate: Decachlorobiphenyl	*283*		*"*	*200*		*142*	*0-200*				
Surrogate: Tetrachloro-m-xylene	*268*		*"*	*200*		*134*	*0-200*				
Batch Y2B1025 - BB21553											
Performance Mix (Y2B1025-P Performance Mix							Prepared & Analyzed: 02/09/2022				
4,4'-DDD	18.6		ng/mL	0.00			0-200				
4,4'-DDE	2.70		"	0.00			0-200				
4,4'-DDT	215		"	200		107	0-200				
Endrin	129		"	100		129	0-200				
Endrin aldehyde	2.89		"	0.00			0-200				
Endrin ketone	17.7		"	0.00			0-200				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y2B1025 - BB21553											
Performance Mix (Y2B1025-P Performance Mix										Prepared & Analyzed: 02/09/2022	
4,4'-DDD	20.4		ng/mL	0.00			0-200				
4,4'-DDE	2.57		"	0.00			0-200				
4,4'-DDT	200		"	200		100	0-200				
Endrin	143		"	100		143	0-200				
Endrin aldehyde	10.4		"	0.00			0-200				
Endrin ketone	18.6		"	0.00			0-200				
Batch Y2B1118 - BB21626											
Performance Mix (Y2B1118-P Performance Mix										Prepared & Analyzed: 02/10/2022	
4,4'-DDD	23.9		ng/mL	0.00			0-200				
4,4'-DDE	3.55		"	0.00			0-200				
4,4'-DDT	237		"	200		119	0-200				
Endrin	171		"	100		171	0-200				
Endrin aldehyde	12.2		"	0.00			0-200				
Endrin ketone	21.1		"	0.00			0-200				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21494 - EPA 3550C											
Blank (BB21494-BLK2) Blank									Prepared: 02/07/2022 Analyzed: 02/08/2022		
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0362*		*"*	*0.0664*		*54.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0402*		*"*	*0.0664*		*60.5*	*30-120*				
LCS (BB21494-BS2) LCS									Prepared: 02/07/2022 Analyzed: 02/08/2022		
Aroclor 1016	0.288	0.0166	mg/kg wet	0.332		86.6	40-130				
Aroclor 1260	0.316	0.0166	"	0.332		95.0	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0458*		*"*	*0.0664*		*69.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0505*		*"*	*0.0664*		*76.0*	*30-120*				
Matrix Spike (BB21494-MS2) Matrix Spike *Source sample: 22A1207-20 (Matrix Spike)									Prepared: 02/07/2022 Analyzed: 02/08/2022		
Aroclor 1016	0.254	0.0189	mg/kg dry	0.377	ND	67.4	40-140				
Aroclor 1260	0.375	0.0189	"	0.377	ND	99.4	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0562*		*"*	*0.0755*		*74.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0543*		*"*	*0.0755*		*72.0*	*30-120*				
Matrix Spike Dup (BB21494-M Matrix Spike Dup *Source sample: 22A1207-20 (Matrix Spike Dup)									Prepared: 02/07/2022 Analyzed: 02/08/2022		
Aroclor 1016	0.168	0.0189	mg/kg dry	0.377	ND	44.7	40-140		40.5	50	
Aroclor 1260	0.269	0.0189	"	0.377	ND	71.3	40-140		32.9	50	
Surrogate: Tetrachloro-m-xylene	*0.0479*		*"*	*0.0755*		*63.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0441*		*"*	*0.0755*		*58.5*	*30-120*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21581 - EPA SW846-3510C Low Level											
Blank (BB21581-BLK2) Blank								Prepared & Analyzed: 02/08/2022			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.153*		*"*	*0.200*		*76.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.126*		*"*	*0.200*		*63.0*	*30-120*				
LCS (BB21581-BS2) LCS								Prepared & Analyzed: 02/08/2022			
Aroclor 1016	0.888	0.0500	ug/L	1.00		88.8	40-120				
Aroclor 1260	0.828	0.0500	"	1.00		82.8	40-120				
Surrogate: Tetrachloro-m-xylene	*0.136*		*"*	*0.200*		*68.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.102*		*"*	*0.200*		*51.0*	*30-120*				
LCS Dup (BB21581-BSD2) LCS Dup								Prepared & Analyzed: 02/08/2022			
Aroclor 1016	0.910	0.0500	ug/L	1.00		91.0	40-120		2.49	30	
Aroclor 1260	0.883	0.0500	"	1.00		88.3	40-120		6.45	30	
Surrogate: Tetrachloro-m-xylene	*0.140*		*"*	*0.200*		*70.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.108*		*"*	*0.200*		*54.0*	*30-120*				
Batch Y2B0828 - BB21581											
Aroclor Reference (Y2B0828- Aroclor Reference								Prepared & Analyzed: 02/08/2022			
Surrogate: Tetrachloro-m-xylene	*0.198*		*ug/mL*	*0.200*		*99.0*					
Surrogate: Decachlorobiphenyl	*0.168*		*"*	*0.200*		*84.0*					

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y2B0830 - BB21553											
Aroclor Reference (Y2B0830- Aroclor Reference										Prepared & Analyzed: 02/08/2022	
Surrogate: Tetrachloro-m-xylene	*0.185*		*ug/mL*	*0.200*		*92.5*					
Surrogate: Decachlorobiphenyl	*0.196*		*"*	*0.200*		*98.0*					

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21582 - EPA 3550C/8151A											
Blank (BB21582-BLK1) Blank									Prepared: 02/08/2022 Analyzed: 02/09/2022		
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.254*		*"*	*0.415*		*61.2*	*21-150*				
LCS (BB21582-BS1) LCS									Prepared: 02/08/2022 Analyzed: 02/09/2022		
2,4,5-T	0.0507	0.0199	mg/kg wet	0.133		38.1	10-120				
2,4,5-TP (Silvex)	0.0623	0.0199	"	0.133		46.9	10-120				
2,4-D	0.0581	0.0199	"	0.133		43.7	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.255*		*"*	*0.415*		*61.4*	*21-150*				
Matrix Spike (BB21582-MS1) Matrix Spike *Source sample: 22B0289-01 (Matrix Spike)									Prepared: 02/08/2022 Analyzed: 02/09/2022		
2,4,5-T	0.0825	0.0257	mg/kg dry	0.171	ND	48.1	10-120				
2,4,5-TP (Silvex)	0.0867	0.0257	"	0.171	ND	50.6	10-120				
2,4-D	0.0921	0.0257	"	0.171	ND	53.8	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.293*		*"*	*0.535*		*54.8*	*21-150*				
Matrix Spike Dup (BB21582-M Matrix Spike Dup *Source sample: 22B0289-01 (Matrix Spike Dup)									Prepared: 02/08/2022 Analyzed: 02/09/2022		
2,4,5-T	0.0696	0.0257	mg/kg dry	0.171	ND	40.6	10-120		16.9	35	
2,4,5-TP (Silvex)	0.0728	0.0257	"	0.171	ND	42.5	10-120		17.4	35	
2,4-D	0.0760	0.0257	"	0.171	ND	44.4	10-118		19.1	35	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.246*		*"*	*0.535*		*46.0*	*21-150*				
Batch BB21643 - EPA 8151A											
Blank (BB21643-BLK1) Blank									Prepared: 02/10/2022 Analyzed: 02/11/2022		
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*88.5*		*"*	*125*		*70.8*	*30-150*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21643 - EPA 8151A											
LCS (BB21643-BS1) LCS								Prepared: 02/10/2022 Analyzed: 02/11/2022			
2,4,5-T	18.5	5.00	ug/L	40.0		46.2	10-140				
2,4,5-TP (Silvex)	21.2	5.00	"	40.0		53.1	10-139				
2,4-D	20.5	5.00	"	40.0		51.2	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*78.8*		*"*	*125*		*63.0*	*30-150*				
Batch BB21710 - EPA 3550C/8151A											
Blank (BB21710-BLK1) Blank								Prepared: 02/10/2022 Analyzed: 02/11/2022			
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.297*		*"*	*0.415*		*71.4*	*21-150*				
LCS (BB21710-BS1) LCS								Prepared: 02/10/2022 Analyzed: 02/11/2022			
2,4,5-T	0.0756	0.0199	mg/kg wet	0.133		56.9	10-120				
2,4,5-TP (Silvex)	0.0814	0.0199	"	0.133		61.2	10-120				
2,4-D	0.0797	0.0199	"	0.133		60.0	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.309*		*"*	*0.415*		*74.4*	*21-150*				
Matrix Spike (BB21710-MS1) Matrix Spike *Source sample: 22B0369-01 (Matrix Spike)								Prepared: 02/10/2022 Analyzed: 02/11/2022			
2,4,5-T	0.0909	0.0230	mg/kg dry	0.153	ND	59.4	10-120				
2,4,5-TP (Silvex)	0.0996	0.0230	"	0.153	ND	65.0	10-120				
2,4-D	0.0996	0.0230	"	0.153	ND	65.0	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.364*		*"*	*0.479*		*76.0*	*21-150*				
Matrix Spike Dup (BB21710-M Matrix Spike Dup *Source sample: 22B0369-01 (Matrix Spike Dup)								Prepared: 02/10/2022 Analyzed: 02/11/2022			
2,4,5-T	0.0814	0.0230	mg/kg dry	0.153	ND	53.1	10-120		11.1	35	
2,4,5-TP (Silvex)	0.0909	0.0230	"	0.153	ND	59.4	10-120		9.05	35	
2,4-D	0.0909	0.0230	"	0.153	ND	59.4	10-118		9.05	35	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.354*		*"*	*0.479*		*74.0*	*21-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21595 - EPA 3015A											
Blank (BB21595-BLK1) Blank									Prepared: 02/08/2022 Analyzed: 02/09/2022		
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	0.105	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BB21595-BS1) LCS									Prepared: 02/08/2022 Analyzed: 02/09/2022		
Aluminum	2.33		ug/mL	2.00		117	80-120				
Barium	2.45		"	2.00		123	80-120	High Bias			
Calcium	1.28		"	1.00		128	80-120	High Bias			
Chromium	0.233		"	0.200		116	80-120				
Cobalt	0.610		"	0.500		122	80-120	High Bias			
Copper	0.298		"	0.250		119	80-120				
Iron	1.26		"	1.00		126	80-120	High Bias			
Lead	0.601		"	0.500		120	80-120				
Magnesium	1.23		"	1.00		123	80-120	High Bias			
Manganese	0.611		"	0.500		122	80-120	High Bias			
Nickel	0.594		"	0.500		119	80-120				
Potassium	1.23		"	1.00		123	80-120	High Bias			
Silver	0.0561		"	0.0500		112	80-120				
Sodium	1.15		"	1.00		115	80-120				
Vanadium	0.592		"	0.500		118	80-120				
Zinc	0.566		"	0.500		113	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21595 - EPA 3015A											
Duplicate (BB21595-DUP1) Duplicate	*Source sample: 22B0058-03 (Duplicate)								Prepared: 02/08/2022 Analyzed: 02/09/2022		
Aluminum	0.442	0.0556	mg/L		0.946				72.7	20	Non-dir.
Barium	ND	0.0278	"		ND					20	
Calcium	674	0.0556	"		680				0.792	20	
Chromium	ND	0.00556	"		ND					20	
Cobalt	0.00468	0.00444	"		0.00472				0.880	20	
Copper	ND	0.0222	"		ND					20	
Iron	166	0.278	"		166				0.00867	20	
Lead	0.00784	0.00556	"		0.00619				23.5	20	Non-dir.
Magnesium	54.8	0.0556	"		54.7				0.0932	20	
Manganese	2.06	0.00556	"		2.08				0.813	20	
Nickel	0.0218	0.0111	"		0.0249				13.1	20	
Potassium	50.2	0.0556	"		50.5				0.578	20	
Silver	ND	0.00556	"		ND					20	
Sodium	225	0.556	"		228				1.48	20	
Vanadium	ND	0.0111	"		ND					20	
Zinc	5.63	0.0278	"		5.64				0.131	20	
Matrix Spike (BB21595-MS1) Matrix Spike	*Source sample: 22B0058-03 (Matrix Spike)								Prepared: 02/08/2022 Analyzed: 02/09/2022		
Aluminum	3.03	0.0556	mg/L	2.22	0.946	93.9	75-125				
Barium	2.58	0.0278	"	2.22	ND	116	75-125				
Calcium	666	0.0556	"	1.11	680	NR	75-125	Low Bias			
Chromium	0.254	0.00556	"	0.222	ND	114	75-125				
Cobalt	0.654	0.00444	"	0.556	0.00472	117	75-125				
Copper	0.336	0.0222	"	0.278	ND	121	75-125				
Iron	167	0.278	"	1.11	166	91.3	75-125				
Lead	0.636	0.00556	"	0.556	0.00619	113	75-125				
Magnesium	55.6	0.0556	"	1.11	54.7	84.9	75-125				
Manganese	2.72	0.00556	"	0.556	2.08	114	75-125				
Nickel	0.707	0.0111	"	0.556	0.0249	123	75-125				
Potassium	51.6	0.0556	"	1.11	50.5	97.3	75-125				
Silver	0.0626	0.00556	"	0.0556	ND	113	75-125				
Sodium	227	0.556	"	1.11	228	NR	75-125	Low Bias			
Vanadium	0.639	0.0111	"	0.556	ND	115	75-125				
Zinc	6.11	0.0278	"	0.556	5.64	84.6	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21595 - EPA 3015A											
Post Spike (BB21595-PS1) Post Spike	*Source sample: 22B0058-03 (Post Spike)							Prepared: 02/08/2022 Analyzed: 02/09/2022			
Aluminum	3.24		ug/mL	2.00	0.851	120	75-125				
Barium	2.38		"	2.00	0.0230	118	75-125				
Calcium	617		"	1.00	612	482	75-125	High Bias			
Chromium	0.236		"	0.200	-0.00108	118	75-125				
Cobalt	0.607		"	0.500	0.00425	121	75-125				
Copper	0.313		"	0.250	-0.00101	125	75-125				
Iron	156		"	1.00	150	634	75-125	High Bias			
Lead	0.591		"	0.500	0.00557	117	75-125				
Magnesium	51.8		"	1.00	49.2	256	75-125	High Bias			
Manganese	2.49		"	0.500	1.87	124	75-125				
Nickel	0.658		"	0.500	0.0224	127	75-125	High Bias			
Potassium	47.8		"	1.00	45.5	231	75-125	High Bias			
Silver	0.0505		"	0.0500	-0.000364	101	75-125				
Sodium	208		"	1.00	206	245	75-125	High Bias			
Vanadium	0.591		"	0.500	-0.00165	118	75-125				
Zinc	5.58		"	0.500	5.07	102	75-125				
Batch BB21610 - EPA 3050B											
Blank (BB21610-BLK1) Blank								Prepared: 02/08/2022 Analyzed: 02/09/2022			
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	6.93	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	13.1	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21610 - EPA 3050B											
Duplicate (BB21610-DUP1) Duplicate	*Source sample: 22B0236-02 (Duplicate)								Prepared: 02/08/2022 Analyzed: 02/09/2022		
Aluminum	7520	5.27	mg/kg dry		7680				2.09	35	
Antimony	ND	2.63	"		ND					35	
Arsenic	ND	1.58	"		ND					35	
Barium	61.0	2.63	"		41.3				38.5	35	Non-dir.
Beryllium	ND	0.053	"		ND					35	
Cadmium	ND	0.316	"		ND					35	
Calcium	2900	5.27	"		2900				0.0744	35	
Chromium	19.8	0.527	"		20.9				5.33	35	
Cobalt	8.52	0.421	"		12.6				38.9	35	Non-dir.
Copper	25.0	2.11	"		22.9				8.99	35	
Iron	18300	26.3	"		21900				18.3	35	
Lead	103	0.527	"		26.0				120	35	Non-dir.
Magnesium	2980	5.27	"		3390				13.0	35	
Manganese	461	0.527	"		468				1.58	35	
Nickel	26.5	1.05	"		28.9				8.70	35	
Potassium	786	5.27	"		882				11.5	35	
Selenium	ND	2.63	"		ND					35	
Silver	ND	0.527	"		ND					35	
Sodium	165	52.7	"		184				10.7	35	
Thallium	ND	2.63	"		ND					35	
Vanadium	32.8	1.05	"		38.1				15.1	35	
Zinc	47.6	2.63	"		38.6				20.9	35	
Matrix Spike (BB21610-MS1) Matrix Spike	*Source sample: 22B0236-02 (Matrix Spike)								Prepared: 02/08/2022 Analyzed: 02/09/2022		
Aluminum	10200	5.27	mg/kg dry	211	7680	NR	75-125	High Bias			
Antimony	10.8	2.63	"	26.3	ND	41.1	75-125	Low Bias			
Arsenic	239	1.58	"	211	ND	114	75-125				
Barium	307	2.63	"	211	41.3	126	75-125	High Bias			
Beryllium	6.00	0.053	"	5.27	ND	114	75-125				
Cadmium	6.46	0.316	"	5.27	ND	123	75-125				
Calcium	3330	5.27	"	105	2900	410	75-125	High Bias			
Chromium	52.3	0.527	"	21.1	20.9	149	75-125	High Bias			
Cobalt	75.8	0.421	"	52.7	12.6	120	75-125				
Copper	63.2	2.11	"	26.3	22.9	153	75-125	High Bias			
Iron	19600	26.3	"	105	21900	NR	75-125	Low Bias			
Lead	85.7	0.527	"	52.7	26.0	113	75-125				
Magnesium	4320	5.27	"	105	3390	877	75-125	High Bias			
Manganese	558	0.527	"	52.7	468	171	75-125	High Bias			
Nickel	98.7	1.05	"	52.7	28.9	133	75-125	High Bias			
Potassium	1190	5.27	"	105	882	292	75-125	High Bias			
Selenium	180	2.63	"	211	ND	85.4	75-125				
Silver	6.30	0.527	"	5.27	ND	120	75-125				
Sodium	398	52.7	"	105	184	203	75-125	High Bias			
Thallium	231	2.63	"	211	ND	110	75-125				
Vanadium	95.6	1.05	"	52.7	38.1	109	75-125				
Zinc	108	2.63	"	52.7	38.6	131	75-125	High Bias			

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21610 - EPA 3050B											
Post Spike (BB21610-PS1) Post Spike	*Source sample: 22B0236-02 (Post Spike)								Prepared: 02/08/2022 Analyzed: 02/09/2022		
Aluminum	73.3		ug/mL	2.00	72.9	21.4	75-125	Low Bias			
Antimony	0.328		"	0.250	0.024	121	75-125				
Arsenic	2.27		"	2.00	0.008	113	75-125				
Barium	2.82		"	2.00	0.392	121	75-125				
Beryllium	0.052		"	0.0500	-0.006	105	75-125				
Cadmium	0.059		"	0.0500	0.001	116	75-125				
Calcium	27.7		"	1.00	27.5	19.5	75-125	Low Bias			
Chromium	0.424		"	0.200	0.199	113	75-125				
Cobalt	0.726		"	0.500	0.120	121	75-125				
Copper	0.519		"	0.250	0.217	121	75-125				
Iron	198		"	1.00	208	NR	75-125	Low Bias			
Lead	0.840		"	0.500	0.247	119	75-125				
Magnesium	31.5		"	1.00	32.2	NR	75-125	Low Bias			
Manganese	4.92		"	0.500	4.45	95.7	75-125				
Nickel	0.882		"	0.500	0.275	121	75-125				
Potassium	9.16		"	1.00	8.38	78.9	75-125				
Selenium	1.63		"	2.00	-0.324	81.5	75-125				
Silver	0.051		"	0.0500	-0.001	102	75-125				
Sodium	2.89		"	1.00	1.75	114	75-125				
Thallium	2.15		"	2.00	-0.028	108	75-125				
Vanadium	0.936		"	0.500	0.362	115	75-125				
Zinc	0.924		"	0.500	0.367	112	75-125				
Reference (BB21610-SRM1) Reference									Prepared: 02/08/2022 Analyzed: 02/09/2022		
Aluminum	10700	5.00	mg/kg wet	8130		132	49.9-150.1				
Antimony	83.4	2.50	"	134		62.3	19.3-250				
Arsenic	186	1.50	"	156		119	69.9-130.1				
Barium	301	2.50	"	239		126	74.9-124.7	High Bias			
Beryllium	201	0.050	"	169		119	75.1-125.4				
Cadmium	153	0.300	"	137		112	75.2-124.8				
Calcium	5430	5.00	"	4760		114	72.7-127.5				
Chromium	179	0.500	"	154		116	70.1-129.9				
Cobalt	146	0.400	"	121		121	75-124.8				
Copper	69.8	2.00	"	54.9		127	74.9-125	High Bias			
Iron	17900	25.0	"	14100		127	34.9-164.5				
Lead	156	0.500	"	130		120	71.8-128.5				
Magnesium	2790	5.00	"	2320		120	62.1-137.9				
Manganese	340	0.500	"	269		126	74-126.4				
Nickel	76.4	1.00	"	53.9		142	69.9-129.9	High Bias			
Potassium	2570	5.00	"	2020		127	58.9-141.1				
Selenium	139	2.50	"	167		83.0	67.7-132.3				
Silver	38.9	0.500	"	33.6		116	68.5-131.3				
Sodium	162	50.0	"	133		122	35-165.4				
Thallium	124	2.50	"	112		111	67.9-131.3				
Vanadium	75.0	1.00	"	62.6		120	59.1-141.1				
Zinc	185	2.50	"	158		117	70.3-129.7				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22088 - EPA 3050B											
Blank (BB22088-BLK1) Blank									Prepared: 02/16/2022 Analyzed: 02/17/2022		
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	71.2	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	ND	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	4.09	2.50	"								
Duplicate (BB22088-DUP1) Duplicate	*Source sample: 22B0652-08 (Duplicate)								Prepared: 02/16/2022 Analyzed: 02/17/2022		
Aluminum	10500	5.95	mg/kg dry		8190				24.7	35	
Antimony	5.87	2.97	"		5.11				13.9	35	
Arsenic	7.65	1.78	"		9.66				23.2	35	
Barium	710	2.97	"		843				17.1	35	
Beryllium	ND	0.059	"		ND					35	
Cadmium	1.87	0.357	"		2.01				7.54	35	
Calcium	4640	5.95	"		5540				17.6	35	
Chromium	35.9	0.595	"		26.4				30.5	35	
Cobalt	10.5	0.476	"		9.06				15.1	35	
Copper	131	2.38	"		154				16.0	35	
Iron	31500	29.7	"		22400				33.8	35	
Lead	1020	0.595	"		1250				20.6	35	
Magnesium	2790	5.95	"		1880				39.0	35	Non-dir.
Manganese	284	0.595	"		364				24.6	35	
Nickel	29.1	1.19	"		22.3				26.8	35	
Potassium	1040	5.95	"		1010				2.73	35	
Selenium	ND	2.97	"		ND					35	
Silver	ND	0.595	"		ND					35	
Sodium	156	59.5	"		133				15.9	35	
Thallium	ND	2.97	"		ND					35	
Vanadium	39.4	1.19	"		46.1				15.7	35	
Zinc	529	2.97	"		771				37.3	35	Non-dir.

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22088 - EPA 3050B											
Matrix Spike (BB22088-MS1) Matrix Spike	*Source sample: 22B0652-08 (Matrix Spike)								Prepared: 02/16/2022 Analyzed: 02/17/2022		
Aluminum	9000	5.95	mg/kg dry	238	8190	339	75-125	High Bias			
Antimony	13.9	2.97	"	29.7	5.11	29.5	75-125	Low Bias			
Arsenic	248	1.78	"	238	9.66	100	75-125				
Barium	1070	2.97	"	238	843	93.7	75-125				
Beryllium	5.92	0.059	"	5.95	ND	99.6	75-125				
Cadmium	9.22	0.357	"	5.95	2.01	121	75-125				
Calcium	5950	5.95	"	119	5540	351	75-125	High Bias			
Chromium	51.4	0.595	"	23.8	26.4	105	75-125				
Cobalt	75.9	0.476	"	59.5	9.06	112	75-125				
Copper	235	2.38	"	29.7	154	274	75-125	High Bias			
Iron	25200	29.7	"	119	22400	NR	75-125	High Bias			
Lead	1230	0.595	"	59.5	1250	NR	75-125	Low Bias			
Magnesium	2150	5.95	"	119	1880	231	75-125	High Bias			
Manganese	437	0.595	"	59.5	364	122	75-125				
Nickel	92.8	1.19	"	59.5	22.3	119	75-125				
Potassium	1310	5.95	"	119	1010	254	75-125	High Bias			
Selenium	176	2.97	"	238	ND	73.8	75-125	Low Bias			
Silver	6.42	0.595	"	5.95	ND	108	75-125				
Sodium	273	59.5	"	119	133	117	75-125				
Thallium	238	2.97	"	238	ND	100	75-125				
Vanadium	106	1.19	"	59.5	46.1	99.9	75-125				
Zinc	732	2.97	"	59.5	771	NR	75-125	Low Bias			
Post Spike (BB22088-PS1) Post Spike	*Source sample: 22B0652-08 (Post Spike)								Prepared: 02/16/2022 Analyzed: 02/17/2022		
Aluminum	73.3		ug/mL	2.00	68.9	221	75-125	High Bias			
Antimony	0.312		"	0.250	0.043	107	75-125				
Arsenic	2.15		"	2.00	0.081	104	75-125				
Barium	8.77		"	2.00	7.09	83.8	75-125				
Beryllium	0.050		"	0.0500	-0.004	101	75-125				
Cadmium	0.073		"	0.0500	0.017	112	75-125				
Calcium	48.8		"	1.00	46.5	223	75-125	High Bias			
Chromium	0.428		"	0.200	0.222	103	75-125				
Cobalt	0.640		"	0.500	0.076	113	75-125				
Copper	1.50		"	0.250	1.29	80.6	75-125				
Iron	194		"	1.00	188	632	75-125	High Bias			
Lead	10.4		"	0.500	10.5	NR	75-125	Low Bias			
Magnesium	17.3		"	1.00	15.8	154	75-125	High Bias			
Manganese	3.47		"	0.500	3.06	81.8	75-125				
Nickel	0.773		"	0.500	0.187	117	75-125				
Potassium	9.87		"	1.00	8.50	137	75-125	High Bias			
Selenium	1.60		"	2.00	-0.243	79.8	75-125				
Silver	0.038		"	0.0500	0.002	70.9	75-125	Low Bias			
Sodium	2.28		"	1.00	1.12	116	75-125				
Thallium	2.09		"	2.00	-0.029	104	75-125				
Vanadium	0.891		"	0.500	0.388	101	75-125				
Zinc	6.51		"	0.500	6.49	4.35	75-125	Low Bias			

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22088 - EPA 3050B											
Reference (BB22088-SRM1) Reference								Prepared: 02/16/2022 Analyzed: 02/17/2022			
Aluminum	8950	5.00	mg/kg wet	8130		110	49.9-150.1				
Antimony	75.7	2.50	"	134		56.5	19.3-250				
Arsenic	169	1.50	"	156		109	69.9-130.1				
Barium	264	2.50	"	239		110	74.9-124.7				
Beryllium	181	0.050	"	169		107	75.1-125.4				
Cadmium	148	0.300	"	137		108	75.2-124.8				
Calcium	5000	5.00	"	4760		105	72.7-127.5				
Chromium	162	0.500	"	154		105	70.1-129.9				
Cobalt	134	0.400	"	121		111	75-124.8				
Copper	60.5	2.00	"	54.9		110	74.9-125				
Iron	15400	25.0	"	14100		109	34.9-164.5				
Lead	142	0.500	"	130		109	71.8-128.5				
Magnesium	2530	5.00	"	2320		109	62.1-137.9				
Manganese	302	0.500	"	269		112	74-126.4				
Nickel	69.8	1.00	"	53.9		130	69.9-129.9	High Bias			
Potassium	2160	5.00	"	2020		107	58.9-141.1				
Selenium	139	2.50	"	167		83.0	67.7-132.3				
Silver	35.2	0.500	"	33.6		105	68.5-131.3				
Sodium	144	50.0	"	133		108	35-165.4				
Thallium	118	2.50	"	112		105	67.9-131.3				
Vanadium	63.0	1.00	"	62.6		101	59.1-141.1				
Zinc	130	2.50	"	158		82.5	70.3-129.7				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21640 - EPA 3015A											
Blank (BB21640-BLK1) Blank								Prepared & Analyzed: 02/09/2022			
Antimony	ND	0.00111	mg/L								
Arsenic	ND	0.00111	"								
Beryllium	ND	0.000333	"								
Cadmium	ND	0.000556	"								
Selenium	ND	0.00111	"								
Thallium	ND	0.00111	"								
LCS (BB21640-BS1) LCS								Prepared & Analyzed: 02/09/2022			
Antimony	51.0		ug/L	50.0		102	80-120				
Arsenic	49.3		"	50.0		98.5	80-120				
Beryllium	55.4		"	50.0		111	80-120				
Cadmium	46.3		"	50.0		92.7	80-120				
Selenium	44.7		"	50.0		89.3	80-120				
Thallium	49.7		"	50.0		99.4	80-120				
Duplicate (BB21640-DUP1) Duplicate	*Source sample: 22B0058-03 (Duplicate)							Prepared & Analyzed: 02/09/2022			
Antimony	ND	0.00111	mg/L		ND					20	
Arsenic	0.0130	0.00111	"		0.0130				0.551	20	
Beryllium	ND	0.000333	"		ND					20	
Cadmium	ND	0.000556	"		ND					20	
Selenium	ND	0.00111	"		ND					20	
Thallium	ND	0.00111	"		ND					20	
Matrix Spike (BB21640-MS1) Matrix Spike	*Source sample: 22B0058-03 (Matrix Spike)							Prepared & Analyzed: 02/09/2022			
Antimony	47.7		ug/L	50.0	0.223	94.9	75-125				
Arsenic	68.3		"	50.0	11.7	113	75-125				
Beryllium	36.9		"	50.0	0.092	73.5	75-125	Low Bias			
Cadmium	50.4		"	50.0	0.111	100	75-125				
Selenium	59.5		"	50.0	-1.34	119	75-125				
Thallium	41.7		"	50.0	-0.00003	83.4	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21619 - EPA SW846-7470A												
Blank (BB21619-BLK1)	Blank								Prepared & Analyzed: 02/08/2022			
Mercury		ND	0.0002	mg/L								
LCS (BB21619-BS1)	LCS								Prepared & Analyzed: 02/08/2022			
Mercury		0.0020287	0.0002	mg/L	0.00200		101	80-120				
LCS (BB21619-BS2)	LCS								Prepared & Analyzed: 02/08/2022			
Mercury		0.0020255	0.0002	mg/L	0.00200		101	80-120				
Batch BB21670 - EPA 7473 soil												
Blank (BB21670-BLK1)	Blank								Prepared & Analyzed: 02/09/2022			
Mercury		ND	0.0300	mg/kg wet								
Duplicate (BB21670-DUP1)	Duplicate	*Source sample: 22B0234-05 (016_LSB-1_4-6)							Prepared & Analyzed: 02/09/2022			
Mercury		0.951	0.0383	mg/kg dry		0.692				31.6	35	
Matrix Spike (BB21670-MS1)	Matrix Spike	*Source sample: 22B0234-05 (016_LSB-1_4-6)							Prepared & Analyzed: 02/09/2022			
Mercury		1.22		mg/kg	0.500	0.542	135	75-125	High Bias			
Reference (BB21670-SRM1)	Reference								Prepared & Analyzed: 02/09/2022			
Mercury		29.120		mg/kg	27.2		107	59.9-140.1				
Batch BB22143 - EPA 7473 soil												
Blank (BB22143-BLK1)	Blank								Prepared & Analyzed: 02/17/2022			
Mercury		ND	0.0300	mg/kg wet								

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22143 - EPA 7473 soil											
Duplicate (BB22143-DUP1) Duplicate	*Source sample: 22B0234-04 (015_LSB-1_2-4)								Prepared & Analyzed: 02/17/2022		
Mercury	0.889	0.0350	mg/kg dry		0.544				48.2	35	Non-dir.
Matrix Spike (BB22143-MS1) Matrix Spike	*Source sample: 22B0234-04 (015_LSB-1_2-4)								Prepared & Analyzed: 02/17/2022		
Mercury	1.07		mg/kg	0.500	0.466	121	75-125				
Reference (BB22143-SRM1) Reference									Prepared & Analyzed: 02/17/2022		
Mercury	22.344		mg/kg	27.2		82.1	59.9-140.1				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21448 - Analysis Preparation												
Blank (BB21448-BLK1)	Blank								Prepared & Analyzed: 02/04/2022			
Chromium, Hexavalent		ND	0.0100	mg/L								
LCS (BB21448-BS1)	LCS								Prepared & Analyzed: 02/04/2022			
Chromium, Hexavalent		0.511	0.0100	mg/L	0.500		102	80-120				
Duplicate (BB21448-DUP1)	Duplicate	*Source sample: 22B0234-03 (014_FB-1)							Prepared & Analyzed: 02/04/2022			
Chromium, Hexavalent		ND	0.0100	mg/L		ND					20	
Matrix Spike (BB21448-MS1)	Matrix Spike	*Source sample: 22B0234-03 (014_FB-1)							Prepared & Analyzed: 02/04/2022			
Chromium, Hexavalent		0.482	0.0100	mg/L	0.500	ND	96.4	75-125				
Batch BB21475 - EPA SW846-3060												
Blank (BB21475-BLK1)	Blank								Prepared & Analyzed: 02/07/2022			
Chromium, Hexavalent		ND	0.500	mg/kg wet								
Duplicate (BB21475-DUP1)	Duplicate	*Source sample: 22B0220-01 (Duplicate)							Prepared & Analyzed: 02/07/2022			
Chromium, Hexavalent		ND	0.551	mg/kg dry		ND					35	
Matrix Spike (BB21475-MS1)	Matrix Spike	*Source sample: 22B0220-01 (Matrix Spike)							Prepared & Analyzed: 02/07/2022			
Chromium, Hexavalent		ND	0.551	mg/kg dry	22.0	ND		75-125	Low Bias			
Reference (BB21475-SRM1)	Reference								Prepared & Analyzed: 02/07/2022			
Chromium, Hexavalent		59.7		mg/L	109		54.8	30-169.7				
Batch BB21562 - Analysis Preparation												
Blank (BB21562-BLK1)	Blank								Prepared & Analyzed: 02/08/2022			
Cyanide, total		ND	0.0100	mg/L								

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21562 - Analysis Preparation												
LCS (BB21562-BS1)	LCS								Prepared & Analyzed: 02/08/2022			
Cyanide, total		0.205	0.0100	mg/L	0.200		102	76.2-107				
Duplicate (BB21562-DUP1)	Duplicate	*Source sample: 22B0106-12 (Duplicate)							Prepared & Analyzed: 02/08/2022			
Cyanide, total		ND	0.0100	mg/L		ND					15	
Matrix Spike (BB21562-MS1)	Matrix Spike	*Source sample: 22B0106-12 (Matrix Spike)							Prepared & Analyzed: 02/08/2022			
Cyanide, total		0.202	0.0100	mg/L	0.200	ND	101	79-105				
Batch BB21604 - Analysis Preparation Soil												
Blank (BB21604-BLK1)	Blank								Prepared & Analyzed: 02/08/2022			
Cyanide, total		ND	0.500	mg/kg wet								
Duplicate (BB21604-DUP1)	Duplicate	*Source sample: 22B0232-05 (Duplicate)							Prepared & Analyzed: 02/08/2022			
Cyanide, total		1.25	0.642	mg/kg dry		1.19				4.57	15	
Matrix Spike (BB21604-MS1)	Matrix Spike	*Source sample: 22B0232-05 (Matrix Spike)							Prepared & Analyzed: 02/08/2022			
Cyanide, total		2.30	0.642	mg/kg dry	12.8	1.19	8.62	79.6-107	Low Bias			
Reference (BB21604-SRM1)	Reference								Prepared & Analyzed: 02/08/2022			
Cyanide, total		93.8		ug/mL	86.8		108	41.82-157.83				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB22095 - % Solids Prep												
Duplicate (BB22095-DUP1)	Duplicate	*Source sample: 22B0234-04 (015_LSB-1_2-4)								Prepared: 02/16/2022 Analyzed: 02/17/2022		
% Solids		84.7	0.100	%		85.6				1.10	20	
Batch BC10009 - % Solids Prep												
Duplicate (BC10009-DUP1)	Duplicate	*Source sample: 22B0236-11 (Duplicate)								Prepared: 02/07/2022 Analyzed: 02/08/2022		
% Solids		97.6	0.100	%		98.2				0.653	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
22B0234-01	012_TB-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22B0234-03	014_FB-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22B0234-05	016_LSB-1_4-6	40mL Vial with Stir Bar-Cool 4° C
22B0234-10	022_LSB-6_8-10	40mL Vial with Stir Bar-Cool 4° C
22B0234-13	025_LSB-5_15-17	40mL Vial with Stir Bar-Cool 4° C
22B0234-14	026_LSB-7_2-4	40mL Vial with Stir Bar-Cool 4° C
22B0234-17	029_DUP-1	40mL Vial with Stir Bar-Cool 4° C

Sample and Data Qualifiers Relating to This Work Order

M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
M-BLK	The target analyte was detected above the RL in the batch method blank. All samples showed >10x the concentration in the blank for this analyte. Data are reported.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
S-08	The recovery of this surrogate was outside of QC limits.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
PF-LCS-H	The LCS recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
M-CRL	The RL check for this element recovered outside of control limits.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported

RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22B0234

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | 800-306-9675

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Langan	Company:	Company:	100964201	RUSH - Next Day
Address: 300 Kimball Drive Parsippany, NJ 07054	Address: SAME	Address: SAME	YOUR Project Name: 213 Meadow Street	RUSH - Two Day
Phone.: 973 560 4900	Phone.:	Phone.:		RUSH - Three Day
Contact:	Contact:	Contact:		RUSH - Four Day
E-mail: mmattern@Langan.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Morgan McBride

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil | Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other:

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
012-TB-2	AQ	2/4/22 —	VOCs	(N)
013-EB-2	↓	1530	PFAS, 1,4-dioxane	
014-FB-1	↓	0700	VOCs, SVOCs, pesticides, PCBs, herbicides, TAL metals, cyanide, trivalent and hexavalent chromium, 1,4-dioxane, PFAS	
015-LSB-1-2-4	S	0835		
016-LSB-1-4-6	↓	0840		
017-LSB-1-6-8	↓	0845		(N)
~~018-LSB-(N)~~				
~~019-LSB-LSB-~~ 019-LSB-6-2-4	↓	1110		
020-LSB-6-4-6	↓	1115		
021-LSB-6-6-8	↓	1120		(Q)

Comments: *Please hold samples: 015-LSB-1-2-4, ~~017~~ 017-LSB-1-4-6, 019-LSB-6-2-4, 020-LSB-6-4-6, 021-LSB-6-6-8

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply) HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered; Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Morgan McBride Langan	2/4/22 1500	Andrew S. York	2/4/22 1500	Andrew S. York	2/4/22 2105
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
3. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[illegible]	2/4/22 2105 / 4C

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | 800-306-9675

YORK Project No. 22B0734

YOUR Information	Report To:	Invoice To:
Company:	Company:	Company:
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

SAME SAME SAME

YOUR Project Number: 100964201

YOUR Project Name: 213 Meadow Street

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Morgan McBride

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | NJDKQP | NJDEP SRP HazSite
Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
022_LSB-6-8-10	S	2/4/22 1125	VOCs, SVOCs, pesticides, PCBs, herbicides, TAL metals, cyanide, trivalent and hexavalent chromium, 1,4-dioxane, PFAS	
023_LSB-5_4-7		1330		
024_LSB-5_10-12		1340		
025_LSB-5_15-17		1345		
026_LSB-7_2-4		1430		
027_LSB-7_4-6		1435		
028_LSB-7_6-8		1440		
029_DUP-1		1445		
031_EB-3	AQ	1505	PFAS, 1,4-dioxane	

Comments:

*Please hold samples: 022_LSB-5_4-7 027_LSB-7_4-6 024_LSB-5_10-12 028_LSB-7_6-8

Samples iced/chilled at time of lab pickup? circle: Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Morgan McBride Lanigan	2/4/22 1500	Andrew S York	2/4/22 1500	Andrew S York	2/4/22 2105
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[illegible]	2/4/22 2108 / 4.5 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NJ)
300 Kimball Drive, 4th Floor
Parsipanny NJ, 07054-2172
Attention: Molly Mattern

Report Date: 02/16/2022
Client Project ID: 100964201
York Project (SDG) No.: 22B0319

Report Date: 02/16/2022
Client Project ID: 100964201
York Project (SDG) No.: 22B0319

Langan Engineering & Environmental Services (NJ)
300 Kimball Drive, 4th Floor
Parsipanny NJ, 07054-2172
Attention: Molly Mattern

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 08, 2022 and listed below. The project was identified as your project: **100964201**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22B0319-01	032_LMW-1	Water	02/07/2022	02/08/2022
22B0319-02	033_DUP-2	Water	02/07/2022	02/08/2022
22B0319-03	034_LMW-2	Water	02/07/2022	02/08/2022
22B0319-04	035_FB-2	Water	02/07/2022	02/08/2022
22B0319-05	036_EB-4	Water	02/07/2022	02/08/2022
22B0319-06	037_TB-3	Water	02/07/2022	02/08/2022

General Notes for York Project (SDG) No.: 22B0319

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By  **Date:** 02/16/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-93-3	**2-Butanone**	**0.750**	Cal-E	ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	**4-Methyl-2-pentanone**	**0.210**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**127**		ug/L	5.00	10.0	5	EPA 8260C	02/09/2022 06:48	02/15/2022 19:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	**Carbon disulfide**	**0.340**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**9.93**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	**tert-Butyl alcohol (TBA)**	**2.48**	CCV-E	ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:24	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*79-122*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: NELAC-NY10854,NJDEP,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-57-6	2-Methylnaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.00	10.0	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
110-86-1	Pyridine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:15	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*35.6 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*23.5 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*82.1 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*78.6 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*103 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*88.3 %*	*30.7-106*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**1.89**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	**Acenaphthylene**	**0.0600**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**0.920**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP		
56-55-3	**Benzo(a)anthracene**	**0.500**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**0.480**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**0.390**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	**Benzo(g,h,i)perylene**	**0.340**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**0.380**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP		
218-01-9	**Chrysene**	**0.590**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0700**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	**Fluoranthene**	**1.71**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	**Fluorene**	**1.66**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
67-72-1	Hexachloroethane	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.300**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	**Naphthalene**	**0.760**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	0.250	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-86-5	Pentachlorophenol	ND		ug/L	0.250	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
85-01-8	**Phenanthrene**	**4.04**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**1.49**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 14:37	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	**1,4-Dioxane**	**0.608**		ug/L	0.300	1	EPA 8270D SIM	02/10/2022 07:43	02/11/2022 12:21	KH
							Certifications: NJDEP,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*80.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**14.3**		ng/L	1.85	1	EPA 537m	02/09/2022 10:40	02/09/2022 19:47	WL
							Certifications:			
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**33.9**		ng/L	1.85	1	EPA 537m	02/09/2022 10:40	02/09/2022 19:47	WL
							Certifications:			

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**27.1**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**13.9**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**75.9**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**11.1**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**54.2**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
27619-97-2	* **1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)**	**15.0**		ng/L	4.63	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL
375-22-4	* **Perfluoro-n-butanoic acid (PFBA)**	**25.7**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:47	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*66.3 %*	*25-150*
Surrogate: M5PFHxA	*70.4 %*	*25-150*
Surrogate: M4PFHpA	*45.2 %*	*25-150*

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	*92.5 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic aci	*106 %*		*25-150*						
	Surrogate: M6PFDA	*109 %*		*25-150*						
	Surrogate: M7PFUdA	*102 %*		*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*93.4 %*		*25-150*						
	Surrogate: M2PFTeDA	*73.2 %*		*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*57.3 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*108 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*51.8 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*23.3 %*		*10-150*						
	Surrogate: d3-N-MeFOSAA	*125 %*		*25-150*						
	Surrogate: d5-N-EtFOSAA	*134 %*		*25-150*						
	Surrogate: M2-6:2 FTS	*180 %*		*25-200*						
	Surrogate: M2-8:2 FTS	*203 %*	PFSu-H	*25-200*						
	Surrogate: M9PFNA	*120 %*		*25-150*						

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
12789-03-6	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:14	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*31.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*42.3 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:26	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:26	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:26	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:26	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:26	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:26	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:26	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:26	BJ
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.0 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*29.0 %*	S-GC	*30-120*

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 21:17	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 21:17	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 21:17	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*57.8 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**1.08**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**0.510**		mg/L	0.0278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**228**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**0.00733**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**44.9**		mg/L	0.278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**0.0313**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**94.5**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**1.03**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**95.2**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**412**		mg/L	0.556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**0.0366**		mg/L	0.0278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:19	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:01	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**0.00388**		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:01	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/L	0.000333	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:01	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/L	0.000556	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:01	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**0.00991**		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:01	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:01	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	02/08/2022 18:20	02/08/2022 18:20	AA
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 032_LMW-1 **York Sample ID:** 22B0319-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 9:35 am	02/08/2022

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A	02/08/2022 20:37	02/08/2022 22:36	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	02/15/2022 15:40	02/15/2022 15:52	PAM
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C/E	02/10/2022 18:00	02/10/2022 21:15	LRW
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-93-3	**2-Butanone**	**1.04**	Cal-E	ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	**4-Methyl-2-pentanone**	**0.200**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**135**		ug/L	5.00	10.0	5	EPA 8260C	02/10/2022 06:29	02/10/2022 17:48	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	**Carbon disulfide**	**0.490**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**11.4**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	**tert-Butyl alcohol (TBA)**	**2.64**	CCV-E	ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	02/09/2022 06:48	02/09/2022 16:51	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*103 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*79-122*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.00	10.0	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
110-86-1	Pyridine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 12:46	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*33.6 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*22.3 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*80.2 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*73.8 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*94.1 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*80.1 %*	*30.7-106*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**1.31**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	**Acenaphthylene**	**0.0500**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**0.780**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP		
56-55-3	**Benzo(a)anthracene**	**0.700**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	**Benzo(a)pyrene**	**0.830**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	**Benzo(b)fluoranthene**	**0.770**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	**Benzo(g,h,i)perylene**	**0.550**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	**Benzo(k)fluoranthene**	**0.660**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP		
218-01-9	**Chrysene**	**0.860**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	**Dibenzo(a,h)anthracene**	**0.110**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	**Fluoranthene**	**1.86**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	**Fluorene**	**1.19**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
67-72-1	Hexachloroethane	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.480**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	**Naphthalene**	**0.520**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	0.250	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-86-5	Pentachlorophenol	ND		ug/L	0.250	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
85-01-8	**Phenanthrene**	**3.20**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**1.66**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	**1,4-Dioxane**	**0.752**		ug/L	0.300	1	EPA 8270D SIM	02/10/2022 07:43	02/11/2022 12:38	KH
							Certifications: NJDEP,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*64.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**7.73**		ng/L	1.89	1	EPA 537m	02/09/2022 10:40	02/09/2022 19:59	WL
							Certifications:			
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**34.6**		ng/L	1.89	1	EPA 537m	02/09/2022 10:40	02/09/2022 19:59	WL
							Certifications:			

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**28.0**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**15.9**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**81.9**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**9.73**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**54.2**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
27619-97-2	* **1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)**	**13.3**		ng/L	4.73	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL
375-22-4	* **Perfluoro-n-butanoic acid (PFBA)**	**33.9**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 19:59	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*57.1 %*	*25-150*
Surrogate: M5PFHxA	*61.8 %*	*25-150*
Surrogate: M4PFHpA	*37.1 %*	*25-150*

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	*76.5 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.0 %*			*25-150*					
	Surrogate: M6PFDA	*84.8 %*			*25-150*					
	Surrogate: M7PFUdA	*81.8 %*			*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*79.4 %*			*25-150*					
	Surrogate: M2PFTeDA	*61.3 %*			*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*52.1 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*82.2 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*46.0 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*32.3 %*			*10-150*					
	Surrogate: d3-N-MeFOSAA	*103 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*101 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*171 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*143 %*			*25-200*					
	Surrogate: M9PFNA	*89.0 %*			*25-150*					

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
12789-03-6	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:31	CM
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*28.7 %*	S-GC	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*36.7 %*		*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:39	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:39	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:39	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:39	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:39	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:39	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:39	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/11/2022 16:39	BJ
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*45.5 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*26.0 %*	S-GC	*30-120*

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 21:28	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 21:28	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 21:28	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (*	*56.8 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.902**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**0.518**		mg/L	0.0278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**226**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**0.00698**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**45.2**		mg/L	0.278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**0.0240**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**94.9**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**1.06**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**94.3**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**406**		mg/L	0.556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:21	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:04	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**0.00391**		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:04	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/L	0.000333	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:04	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/L	0.000556	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:04	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**0.00863**		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:04	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:04	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	02/08/2022 18:20	02/08/2022 18:20	AA
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 033_DUP-2 **York Sample ID:** 22B0319-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 10:35 am	02/08/2022

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A	02/08/2022 20:37	02/08/2022 22:36	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	02/15/2022 15:40	02/15/2022 15:52	PAM
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.0358**		mg/L	0.0100	1	SM 4500 CN C/E	02/10/2022 18:00	02/10/2022 21:15	LRW
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**6.12**		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	**Carbon disulfide**	**0.580**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**2.50**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:18	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*103 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*	*79-122*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.00	10.0	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
110-86-1	Pyridine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:18	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*30.2 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*22.6 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*76.1 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*75.4 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*86.9 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*89.3 %*	*30.7-106*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**2.06**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	**Acenaphthylene**	**0.630**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**0.290**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP		
218-01-9	Chrysene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	**Fluoranthene**	**0.270**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	**Fluorene**	**0.740**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
67-72-1	Hexachloroethane	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	**Naphthalene**	**0.130**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	0.250	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-86-5	Pentachlorophenol	ND		ug/L	0.250	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
85-01-8	**Phenanthrene**	**0.710**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**0.180**		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 15:50	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	**1,4-Dioxane**	**1.92**		ug/L	0.300	1	EPA 8270D SIM	02/10/2022 07:43	02/11/2022 12:55	KH
							Certifications: NJDEP,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*92.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**17.0**		ng/L	1.85	1	EPA 537m	02/09/2022 10:40	02/09/2022 20:11	WL
							Certifications:			
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**58.7**		ng/L	1.85	1	EPA 537m	02/09/2022 10:40	02/09/2022 20:11	WL
							Certifications:			

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**61.9**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**27.8**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**135**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**114**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
375-95-1	* **Perfluorononanoic acid (PFNA)**	**14.3**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
335-76-2	* **Perfluorodecanoic acid (PFDA)**	**2.45**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
2355-31-9	* **N-MeFOSAA**	**2.21**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
2991-50-6	* **N-EtFOSAA**	**3.68**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**94.6**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
375-92-8	* **Perfluoro-1-heptanesulfonic acid (PFHpS)**	**5.11**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.63	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL
375-22-4	* **Perfluoro-n-butanoic acid (PFBA)**	**43.6**		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:11	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*75.9 %*	*25-150*
Surrogate: M5PFHxA	*71.7 %*	*25-150*
Surrogate: M4PFHpA	*45.6 %*	*25-150*

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	*93.4 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic aci	*113 %*		*25-150*						
	Surrogate: M6PFDA	*110 %*		*25-150*						
	Surrogate: M7PFUdA	*104 %*		*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*92.2 %*		*25-150*						
	Surrogate: M2PFTeDA	*78.2 %*		*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*51.6 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*108 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*52.0 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*24.3 %*		*10-150*						
	Surrogate: d3-N-MeFOSAA	*112 %*		*25-150*						
	Surrogate: d5-N-EtFOSAA	*130 %*		*25-150*						
	Surrogate: M2-6:2 FTS	*221 %*	PFSu-H	*25-200*						
	Surrogate: M2-8:2 FTS	*191 %*		*25-200*						
	Surrogate: M9PFNA	*120 %*		*25-150*						

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
12789-03-6	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	02/09/2022 12:51	02/13/2022 18:48	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*51.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.4 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:39	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:39	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:39	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:39	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:39	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:39	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:39	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:39	BJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*34.0 %*	*30-120*

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 21:39	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 21:39	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 21:39	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (*	*76.6 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.542**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**0.159**		mg/L	0.0278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**353**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**4.91**		mg/L	0.278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**52.0**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**0.221**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**40.7**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**80.0**		mg/L	0.556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**0.0286**		mg/L	0.0278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:23	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:07	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**0.00361**		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:07	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/L	0.000333	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:07	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/L	0.000556	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:07	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**0.00810**		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:07	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:07	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	02/08/2022 18:20	02/08/2022 18:20	AA
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 034_LMW-2 **York Sample ID:** 22B0319-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 1:05 pm	02/08/2022

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A	02/08/2022 20:37	02/08/2022 22:36	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	02/15/2022 15:40	02/15/2022 15:52	PAM
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.0559**		mg/L	0.0100	1	SM 4500 CN C/E	02/10/2022 18:00	02/10/2022 21:15	LRW
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:57	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*	*79-122*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.00	10.0	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		ug/L	2.50	5.00	1	EPA 8270D	02/11/2022 12:57	02/14/2022 13:49	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*28.2 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*18.4 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*72.2 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.1 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*86.3 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*90.9 %*	*30.7-106*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
208-96-8	Acenaphthylene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-12-7	Anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1912-24-9	Atrazine	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
218-01-9	Chrysene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	Fluorene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
67-72-1	Hexachloroethane	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	Naphthalene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	0.250	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-86-5	Pentachlorophenol	ND		ug/L	0.250	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
85-01-8	Phenanthrene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	Pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 16:27	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM	02/10/2022 07:43	02/11/2022 13:12	KH
							Certifications: NJDEP,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*88.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.85	1	EPA 537m	02/09/2022 10:40	02/09/2022 20:36	WL
							Certifications:			
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.85	1	EPA 537m	02/09/2022 10:40	02/09/2022 20:36	WL
							Certifications:			

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.63	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:36	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*77.3 %*	*25-150*
Surrogate: M5PFHxA	*84.6 %*	*25-150*
Surrogate: M4PFHpA	*71.0 %*	*25-150*

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	*83.9 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic aci	*79.3 %*			*25-150*					
	Surrogate: M6PFDA	*81.7 %*			*25-150*					
	Surrogate: M7PFUdA	*71.3 %*			*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*71.7 %*			*25-150*					
	Surrogate: M2PFTeDA	*60.6 %*			*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*76.9 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*84.5 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*75.7 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*54.4 %*			*10-150*					
	Surrogate: d3-N-MeFOSAA	*67.8 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*76.2 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*73.0 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*83.9 %*			*25-200*					
	Surrogate: M9PFNA	*87.1 %*			*25-150*					

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
12789-03-6	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:05	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*74.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*62.2 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:53	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:53	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:53	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:53	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:53	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:53	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:53	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 20:53	BJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*71.0 %*	*30-120*

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 21:50	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 21:50	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 21:50	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (*	*57.6 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**0.273**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**1.20**		mg/L	0.278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	ND		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	Potassium	ND		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	Sodium	ND		mg/L	0.556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**0.0465**		mg/L	0.0278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:26	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:17	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	Arsenic	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:17	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/L	0.000333	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:17	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/L	0.000556	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:17	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:17	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:17	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	02/08/2022 18:20	02/08/2022 18:20	AA
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 035_FB-2 **York Sample ID:** 22B0319-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:00 pm	02/08/2022

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.0100	1	EPA 7196A	02/08/2022 20:37	02/08/2022 22:36	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	02/15/2022 15:40	02/15/2022 15:52	PAM
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.0344**		mg/L	0.0100	1	SM 4500 CN C/E	02/10/2022 18:00	02/10/2022 21:15	LRW
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: 036_EB-4 **York Sample ID:** 22B0319-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:10 pm	02/08/2022

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	02/10/2022 07:43	02/11/2022 13:29	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*96.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL

Sample Information

Client Sample ID: 036_EB-4 **York Sample ID:** 22B0319-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 2:10 pm	02/08/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.63	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.85	1	EPA 537m Certifications:	02/09/2022 10:40	02/09/2022 20:48	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*98.9 %*	*25-150*
Surrogate: M5PFHxA	*100 %*	*25-150*
Surrogate: M4PFHpA	*94.9 %*	*25-150*
Surrogate: M3PFHxS	*103 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*97.7 %*	*25-150*
Surrogate: M6PFDA	*107 %*	*25-150*
Surrogate: M7PFUdA	*118 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*100 %*	*25-150*
Surrogate: M2PFTeDA	*84.8 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*94.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*102 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*93.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*59.8 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*96.0 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*116 %*	*25-150*
Surrogate: M2-6:2 FTS	*99.3 %*	*25-200*
Surrogate: M2-8:2 FTS	*107 %*	*25-200*
Surrogate: M9PFNA	*113 %*	*25-150*

Sample Information

Client Sample ID: 037_TB-3 **York Sample ID:** 22B0319-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 3:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 037_TB-3 **York Sample ID:** 22B0319-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 3:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 037_TB-3 **York Sample ID:** 22B0319-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 3:00 pm	02/08/2022

Volatiles, 8260 Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 037_TB-3 **York Sample ID:** 22B0319-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0319	100964201	Water	February 7, 2022 3:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	02/09/2022 06:48	02/09/2022 14:36	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*112 %*	*79-122*

Analytical Batch Summary

Batch ID: BB21619 **Preparation Method:** EPA SW846-7470A **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01	032_LMW-1	02/08/22
22B0319-02	033_DUP-2	02/08/22
22B0319-03	034_LMW-2	02/08/22
22B0319-04	035_FB-2	02/08/22
BB21619-BLK1	Blank	02/08/22
BB21619-BS1	LCS	02/08/22
BB21619-BS2	LCS	02/08/22

Batch ID: BB21622 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01	032_LMW-1	02/08/22
22B0319-02	033_DUP-2	02/08/22
22B0319-03	034_LMW-2	02/08/22
22B0319-04	035_FB-2	02/08/22
BB21622-BLK1	Blank	02/08/22
BB21622-BS1	LCS	02/08/22
BB21622-DUP1	Duplicate	02/08/22
BB21622-MS1	Matrix Spike	02/08/22

Batch ID: BB21642 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** WEL

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01	032_LMW-1	02/09/22
22B0319-02	033_DUP-2	02/09/22
22B0319-03	034_LMW-2	02/09/22
22B0319-04	035_FB-2	02/09/22
22B0319-05	036_EB-4	02/09/22
BB21642-BLK1	Blank	02/09/22
BB21642-BS1	LCS	02/09/22
BB21642-BSD1	LCS Dup	02/09/22

Batch ID: BB21643 **Preparation Method:** EPA 8151A **Prepared By:** FTR

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01	032_LMW-1	02/10/22
22B0319-02	033_DUP-2	02/10/22
22B0319-03	034_LMW-2	02/10/22
22B0319-04	035_FB-2	02/10/22
BB21643-BLK1	Blank	02/10/22
BB21643-BS1	LCS	02/10/22

Batch ID: BB21654 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** GMA

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01	032_LMW-1	02/09/22
22B0319-01	032_LMW-1	02/09/22
22B0319-02	033_DUP-2	02/09/22
22B0319-02	033_DUP-2	02/09/22
22B0319-03	034_LMW-2	02/09/22
22B0319-03	034_LMW-2	02/09/22
22B0319-04	035_FB-2	02/09/22
22B0319-04	035_FB-2	02/09/22
BB21654-BLK1	Blank	02/09/22
BB21654-BLK2	Blank	02/09/22
BB21654-BS1	LCS	02/09/22
BB21654-BS2	LCS	02/09/22
BB21654-BSD1	LCS Dup	02/09/22
BB21654-BSD2	LCS Dup	02/09/22

Batch ID: BB21678 **Preparation Method:** EPA 5030B **Prepared By:** JTG

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01	032_LMW-1	02/09/22
22B0319-02	033_DUP-2	02/09/22
22B0319-03	034_LMW-2	02/09/22
22B0319-04	035_FB-2	02/09/22
22B0319-06	037_TB-3	02/09/22
BB21678-BLK1	Blank	02/09/22
BB21678-BS1	LCS	02/09/22
BB21678-BSD1	LCS Dup	02/09/22

Batch ID: BB21707 **Preparation Method:** EPA 3535A **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01	032_LMW-1	02/10/22
22B0319-02	033_DUP-2	02/10/22
22B0319-03	034_LMW-2	02/10/22
22B0319-04	035_FB-2	02/10/22
22B0319-05	036_EB-4	02/10/22
BB21707-BLK1	Blank	02/10/22
BB21707-BS1	LCS	02/10/22
BB21707-MS1	Matrix Spike	02/10/22
BB21707-MSD1	Matrix Spike Dup	02/10/22

Batch ID: BB21726 **Preparation Method:** EPA 5030B **Prepared By:** JTG

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-02RE1	033_DUP-2	02/10/22
BB21726-BLK1	Blank	02/10/22
BB21726-BS1	LCS	02/10/22
BB21726-BSD1	LCS Dup	02/10/22

Batch ID: BB21742 **Preparation Method:** EPA 3015A **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01	032_LMW-1	02/10/22
22B0319-02	033_DUP-2	02/10/22
22B0319-03	034_LMW-2	02/10/22
22B0319-04	035_FB-2	02/10/22
BB21742-BLK1	Blank	02/10/22
BB21742-BS1	LCS	02/10/22
BB21742-DUP1	Duplicate	02/10/22
BB21742-MS1	Matrix Spike	02/10/22
BB21742-PS1	Post Spike	02/10/22

Batch ID: BB21760 **Preparation Method:** Analysis Preparation **Prepared By:** LRW

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01	032_LMW-1	02/10/22
22B0319-02	033_DUP-2	02/10/22
22B0319-03	034_LMW-2	02/10/22
22B0319-04	035_FB-2	02/10/22
BB21760-BLK1	Blank	02/10/22
BB21760-BS1	LCS	02/10/22
BB21760-DUP1	Duplicate	02/10/22
BB21760-MS1	Matrix Spike	02/10/22

Batch ID: BB21821 **Preparation Method:** EPA 3510C **Prepared By:** GMA

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01	032_LMW-1	02/11/22
22B0319-02	033_DUP-2	02/11/22
22B0319-03	034_LMW-2	02/11/22
22B0319-04	035_FB-2	02/11/22
BB21821-BLK1	Blank	02/11/22
BB21821-BLK2	Blank	02/11/22
BB21821-BS1	LCS	02/11/22
BB21821-BS2	LCS	02/11/22

Batch ID: BB21874 **Preparation Method:** EPA 5030B **Prepared By:** JTG

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01RE1	032_LMW-1	02/09/22
BB21874-BLK1	Blank	02/15/22
BB21874-BS1	LCS	02/15/22
BB21874-BSD1	LCS Dup	02/15/22
BB21874-MS1	Matrix Spike	02/15/22
BB21874-MSD1	Matrix Spike Dup	02/15/22

Batch ID: BB21916 **Preparation Method:** EPA 3015A **Prepared By:** S_G

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01	032_LMW-1	02/14/22
22B0319-02	033_DUP-2	02/14/22
22B0319-03	034_LMW-2	02/14/22
22B0319-04	035_FB-2	02/14/22
BB21916-BLK1	Blank	02/14/22
BB21916-BS1	LCS	02/14/22
BB21916-DUP1	Duplicate	02/14/22
BB21916-MS1	Matrix Spike	02/14/22

Batch ID: BB21983 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
22B0319-01	032_LMW-1	02/15/22
22B0319-02	033_DUP-2	02/15/22
22B0319-03	034_LMW-2	02/15/22
22B0319-04	035_FB-2	02/15/22

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21678 - EPA 5030B											
Blank (BB21678-BLK1) Blank									Prepared & Analyzed: 02/09/2022		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2,2-Dichloropropane	ND	0.500	"								
2-Butanone	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21678 - EPA 5030B											
Blank (BB21678-BLK1) Blank									Prepared & Analyzed: 02/09/2022		
Hexachlorobutadiene	ND	0.500	ug/L								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl acetate	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.0*		*"*	*10.0*		*110*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21678 - EPA 5030B											
LCS (BB21678-BS1) LCS							Prepared & Analyzed: 02/09/2022				
1,1,1,2-Tetrachloroethane	8.78		ug/L	10.0		87.8	82-126				
1,1,1-Trichloroethane	9.14		"	10.0		91.4	78-136				
1,1,2,2-Tetrachloroethane	9.46		"	10.0		94.6	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4		"	10.0		104	54-165				
1,1,2-Trichloroethane	8.78		"	10.0		87.8	82-123				
1,1-Dichloroethane	9.78		"	10.0		97.8	82-129				
1,1-Dichloroethylene	10.8		"	10.0		108	68-138				
1,1-Dichloropropylene	9.26		"	10.0		92.6	83-133				
1,2,3-Trichlorobenzene	7.23		"	10.0		72.3	76-136	Low Bias			
1,2,3-Trichloropropane	8.92		"	10.0		89.2	77-128				
1,2,4-Trichlorobenzene	7.57		"	10.0		75.7	76-137	Low Bias			
1,2,4-Trimethylbenzene	9.83		"	10.0		98.3	82-132				
1,2-Dibromo-3-chloropropane	7.29		"	10.0		72.9	45-147				
1,2-Dibromoethane	8.77		"	10.0		87.7	83-124				
1,2-Dichlorobenzene	9.36		"	10.0		93.6	79-123				
1,2-Dichloroethane	9.58		"	10.0		95.8	73-132				
1,2-Dichloropropane	10.6		"	10.0		106	78-126				
1,3,5-Trimethylbenzene	9.95		"	10.0		99.5	80-131				
1,3-Dichlorobenzene	8.84		"	10.0		88.4	86-122				
1,3-Dichloropropane	9.20		"	10.0		92.0	81-125				
1,4-Dichlorobenzene	9.06		"	10.0		90.6	85-124				
1,4-Dioxane	227		"	210		108	10-349				
2,2-Dichloropropane	9.69		"	10.0		96.9	56-150				
2-Butanone	9.40		"	10.0		94.0	49-152				
2-Chlorotoluene	10.1		"	10.0		101	79-130				
2-Hexanone	10.1		"	10.0		101	51-146				
4-Chlorotoluene	10.1		"	10.0		101	79-128				
4-Methyl-2-pentanone	10.0		"	10.0		100	57-145				
Acetone	9.41		"	10.0		94.1	14-150				
Acrolein	5.22		"	10.0		52.2	10-153				
Acrylonitrile	9.64		"	10.0		96.4	51-150				
Benzene	9.73		"	10.0		97.3	85-126				
Bromobenzene	9.80		"	10.0		98.0	78-129				
Bromochloromethane	10.1		"	10.0		101	77-128				
Bromodichloromethane	9.19		"	10.0		91.9	79-128				
Bromoform	7.57		"	10.0		75.7	78-133	Low Bias			
Bromomethane	3.19		"	10.0		31.9	43-168	Low Bias			
Carbon disulfide	10.2		"	10.0		102	68-146				
Carbon tetrachloride	9.22		"	10.0		92.2	77-141				
Chlorobenzene	9.80		"	10.0		98.0	88-120				
Chloroethane	10.4		"	10.0		104	65-136				
Chloroform	9.44		"	10.0		94.4	82-128				
Chloromethane	10.0		"	10.0		100	43-155				
cis-1,2-Dichloroethylene	9.85		"	10.0		98.5	83-129				
cis-1,3-Dichloropropylene	9.31		"	10.0		93.1	80-131				
Cyclohexane	8.15		"	10.0		81.5	63-149				
Dibromochloromethane	8.12		"	10.0		81.2	80-130				
Dibromomethane	8.97		"	10.0		89.7	72-134				
Dichlorodifluoromethane	11.6		"	10.0		116	44-144				
Ethyl Benzene	10.5		"	10.0		105	80-131				
Hexachlorobutadiene	9.73		"	10.0		97.3	67-146				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21678 - EPA 5030B											
LCS (BB21678-BS1) LCS								Prepared & Analyzed: 02/09/2022			
Isopropylbenzene	10.5		ug/L	10.0		105	76-140				
Methyl acetate	9.33		"	10.0		93.3	51-139				
Methyl tert-butyl ether (MTBE)	9.04		"	10.0		90.4	76-135				
Methylcyclohexane	10.8		"	10.0		108	72-143				
Methylene chloride	9.72		"	10.0		97.2	55-137				
n-Butylbenzene	10.9		"	10.0		109	79-132				
n-Propylbenzene	10.8		"	10.0		108	78-133				
o-Xylene	10.2		"	10.0		102	78-130				
p- & m- Xylenes	18.0		"	20.0		90.0	77-133				
p-Isopropyltoluene	9.91		"	10.0		99.1	81-136				
sec-Butylbenzene	10.3		"	10.0		103	79-137				
Styrene	9.76		"	10.0		97.6	67-132				
tert-Butyl alcohol (TBA)	38.7		"	50.0		77.4	25-162				
tert-Butylbenzene	7.97		"	10.0		79.7	77-138				
Tetrachloroethylene	8.48		"	10.0		84.8	82-131				
Toluene	9.92		"	10.0		99.2	80-127				
trans-1,2-Dichloroethylene	10.1		"	10.0		101	80-132				
trans-1,3-Dichloropropylene	9.04		"	10.0		90.4	78-131				
Trichloroethylene	9.41		"	10.0		94.1	82-128				
Trichlorofluoromethane	11.2		"	10.0		112	67-139				
Vinyl acetate	10.8		"	10.0		108	21-90	High Bias			
Vinyl Chloride	12.8		"	10.0		128	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				
LCS Dup (BB21678-BSD1) LCS Dup								Prepared & Analyzed: 02/09/2022			
1,1,1,2-Tetrachloroethane	8.71		ug/L	10.0		87.1	82-126		0.800	30	
1,1,1-Trichloroethane	8.90		"	10.0		89.0	78-136		2.66	30	
1,1,2,2-Tetrachloroethane	9.76		"	10.0		97.6	76-129		3.12	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0		"	10.0		100	54-165		3.13	30	
1,1,2-Trichloroethane	9.06		"	10.0		90.6	82-123		3.14	30	
1,1-Dichloroethane	9.58		"	10.0		95.8	82-129		2.07	30	
1,1-Dichloroethylene	10.4		"	10.0		104	68-138		4.53	30	
1,1-Dichloropropylene	9.05		"	10.0		90.5	83-133		2.29	30	
1,2,3-Trichlorobenzene	7.53		"	10.0		75.3	76-136	Low Bias	4.07	30	
1,2,3-Trichloropropane	9.28		"	10.0		92.8	77-128		3.96	30	
1,2,4-Trichlorobenzene	7.73		"	10.0		77.3	76-137		2.09	30	
1,2,4-Trimethylbenzene	9.33		"	10.0		93.3	82-132		5.22	30	
1,2-Dibromo-3-chloropropane	7.69		"	10.0		76.9	45-147		5.34	30	
1,2-Dibromoethane	9.16		"	10.0		91.6	83-124		4.35	30	
1,2-Dichlorobenzene	9.13		"	10.0		91.3	79-123		2.49	30	
1,2-Dichloroethane	9.71		"	10.0		97.1	73-132		1.35	30	
1,2-Dichloropropane	10.5		"	10.0		105	78-126		0.474	30	
1,3,5-Trimethylbenzene	9.49		"	10.0		94.9	80-131		4.73	30	
1,3-Dichlorobenzene	8.45		"	10.0		84.5	86-122	Low Bias	4.51	30	
1,3-Dichloropropane	9.50		"	10.0		95.0	81-125		3.21	30	
1,4-Dichlorobenzene	8.71		"	10.0		87.1	85-124		3.94	30	
1,4-Dioxane	239		"	210		114	10-349		5.20	30	
2,2-Dichloropropane	9.36		"	10.0		93.6	56-150		3.46	30	
2-Butanone	10.1		"	10.0		101	49-152		7.48	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21678 - EPA 5030B											
LCS Dup (BB21678-BSD1) LCS Dup								Prepared & Analyzed: 02/09/2022			
2-Chlorotoluene	9.66		ug/L	10.0		96.6	79-130		4.65	30	
2-Hexanone	11.0		"	10.0		110	51-146		8.70	30	
4-Chlorotoluene	9.66		"	10.0		96.6	79-128		4.75	30	
4-Methyl-2-pentanone	11.0		"	10.0		110	57-145		8.85	30	
Acetone	9.91		"	10.0		99.1	14-150		5.18	30	
Acrolein	5.54		"	10.0		55.4	10-153		5.95	30	
Acrylonitrile	9.76		"	10.0		97.6	51-150		1.24	30	
Benzene	9.53		"	10.0		95.3	85-126		2.08	30	
Bromobenzene	9.61		"	10.0		96.1	78-129		1.96	30	
Bromochloromethane	10.0		"	10.0		100	77-128		0.498	30	
Bromodichloromethane	9.21		"	10.0		92.1	79-128		0.217	30	
Bromoform	8.00		"	10.0		80.0	78-133		5.52	30	
Bromomethane	2.82		"	10.0		28.2	43-168	Low Bias	12.3	30	
Carbon disulfide	9.58		"	10.0		95.8	68-146		5.97	30	
Carbon tetrachloride	8.98		"	10.0		89.8	77-141		2.64	30	
Chlorobenzene	9.63		"	10.0		96.3	88-120		1.75	30	
Chloroethane	9.71		"	10.0		97.1	65-136		6.57	30	
Chloroform	9.23		"	10.0		92.3	82-128		2.25	30	
Chloromethane	8.75		"	10.0		87.5	43-155		13.4	30	
cis-1,2-Dichloroethylene	9.64		"	10.0		96.4	83-129		2.15	30	
cis-1,3-Dichloropropylene	9.34		"	10.0		93.4	80-131		0.322	30	
Cyclohexane	8.00		"	10.0		80.0	63-149		1.86	30	
Dibromochloromethane	8.38		"	10.0		83.8	80-130		3.15	30	
Dibromomethane	9.27		"	10.0		92.7	72-134		3.29	30	
Dichlorodifluoromethane	10.5		"	10.0		105	44-144		10.1	30	
Ethyl Benzene	10.3		"	10.0		103	80-131		2.11	30	
Hexachlorobutadiene	9.98		"	10.0		99.8	67-146		2.54	30	
Isopropylbenzene	9.99		"	10.0		99.9	76-140		5.17	30	
Methyl acetate	10.0		"	10.0		100	51-139		6.93	30	
Methyl tert-butyl ether (MTBE)	9.33		"	10.0		93.3	76-135		3.16	30	
Methylcyclohexane	10.7		"	10.0		107	72-143		0.745	30	
Methylene chloride	9.50		"	10.0		95.0	55-137		2.29	30	
n-Butylbenzene	10.5		"	10.0		105	79-132		3.74	30	
n-Propylbenzene	10.3		"	10.0		103	78-133		5.31	30	
o-Xylene	10.1		"	10.0		101	78-130		1.77	30	
p- & m- Xylenes	17.6		"	20.0		88.0	77-133		2.30	30	
p-Isopropyltoluene	9.46		"	10.0		94.6	81-136		4.65	30	
sec-Butylbenzene	9.75		"	10.0		97.5	79-137		5.29	30	
Styrene	9.65		"	10.0		96.5	67-132		1.13	30	
tert-Butyl alcohol (TBA)	43.1		"	50.0		86.3	25-162		10.8	30	
tert-Butylbenzene	7.57		"	10.0		75.7	77-138	Low Bias	5.15	30	
Tetrachloroethylene	8.36		"	10.0		83.6	82-131		1.43	30	
Toluene	9.78		"	10.0		97.8	80-127		1.42	30	
trans-1,2-Dichloroethylene	9.76		"	10.0		97.6	80-132		3.72	30	
trans-1,3-Dichloropropylene	9.31		"	10.0		93.1	78-131		2.94	30	
Trichloroethylene	9.21		"	10.0		92.1	82-128		2.15	30	
Trichlorofluoromethane	10.5		"	10.0		105	67-139		7.09	30	
Vinyl acetate	11.7		"	10.0		117	21-90	High Bias	7.84	30	
Vinyl Chloride	8.63		"	10.0		86.3	58-145		39.2	30	Non-dir.
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21678 - EPA 5030B											
LCS Dup (BB21678-BSD1) LCS Dup									Prepared & Analyzed: 02/09/2022		
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*ug/L*	*10.0*		*104*	*79-122*				
Batch BB21726 - EPA 5030B											
Blank (BB21726-BLK1) Blank									Prepared & Analyzed: 02/10/2022		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2,2-Dichloropropane	ND	0.500	"								
2-Butanone	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21726 - EPA 5030B											
Blank (BB21726-BLK1) Blank									Prepared & Analyzed: 02/10/2022		
Dibromochloromethane	ND	0.500	ug/L								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl acetate	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.4*		"	*10.0*		*104*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		"	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.4*		"	*10.0*		*114*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21726 - EPA 5030B											
LCS (BB21726-BS1) LCS								Prepared & Analyzed: 02/10/2022			
1,1,1,2-Tetrachloroethane	8.86		ug/L	10.0		88.6	82-126				
1,1,1-Trichloroethane	9.16		"	10.0		91.6	78-136				
1,1,2,2-Tetrachloroethane	9.86		"	10.0		98.6	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2		"	10.0		102	54-165				
1,1,2-Trichloroethane	9.02		"	10.0		90.2	82-123				
1,1-Dichloroethane	9.95		"	10.0		99.5	82-129				
1,1-Dichloroethylene	10.9		"	10.0		109	68-138				
1,1-Dichloropropylene	9.36		"	10.0		93.6	83-133				
1,2,3-Trichlorobenzene	7.45		"	10.0		74.5	76-136	Low Bias			
1,2,3-Trichloropropane	9.17		"	10.0		91.7	77-128				
1,2,4-Trichlorobenzene	7.71		"	10.0		77.1	76-137				
1,2,4-Trimethylbenzene	9.94		"	10.0		99.4	82-132				
1,2-Dibromo-3-chloropropane	7.57		"	10.0		75.7	45-147				
1,2-Dibromoethane	8.89		"	10.0		88.9	83-124				
1,2-Dichlorobenzene	9.40		"	10.0		94.0	79-123				
1,2-Dichloroethane	9.77		"	10.0		97.7	73-132				
1,2-Dichloropropane	11.1		"	10.0		111	78-126				
1,3,5-Trimethylbenzene	10.1		"	10.0		101	80-131				
1,3-Dichlorobenzene	8.80		"	10.0		88.0	86-122				
1,3-Dichloropropane	9.54		"	10.0		95.4	81-125				
1,4-Dichlorobenzene	9.09		"	10.0		90.9	85-124				
1,4-Dioxane	234		"	210		111	10-349				
2,2-Dichloropropane	9.70		"	10.0		97.0	56-150				
2-Butanone	9.67		"	10.0		96.7	49-152				
2-Chlorotoluene	10.3		"	10.0		103	79-130				
2-Hexanone	10.7		"	10.0		107	51-146				
4-Chlorotoluene	10.3		"	10.0		103	79-128				
4-Methyl-2-pentanone	10.7		"	10.0		107	57-145				
Acetone	9.53		"	10.0		95.3	14-150				
Acrolein	5.03		"	10.0		50.3	10-153				
Acrylonitrile	9.98		"	10.0		99.8	51-150				
Benzene	9.77		"	10.0		97.7	85-126				
Bromobenzene	10.1		"	10.0		101	78-129				
Bromochloromethane	10.4		"	10.0		104	77-128				
Bromodichloromethane	9.47		"	10.0		94.7	79-128				
Bromoform	7.58		"	10.0		75.8	78-133	Low Bias			
Bromomethane	2.14		"	10.0		21.4	43-168	Low Bias			
Carbon disulfide	9.87		"	10.0		98.7	68-146				
Carbon tetrachloride	9.21		"	10.0		92.1	77-141				
Chlorobenzene	9.90		"	10.0		99.0	88-120				
Chloroethane	10.1		"	10.0		101	65-136				
Chloroform	9.54		"	10.0		95.4	82-128				
Chloromethane	9.24		"	10.0		92.4	43-155				
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129				
cis-1,3-Dichloropropylene	9.61		"	10.0		96.1	80-131				
Cyclohexane	8.22		"	10.0		82.2	63-149				
Dibromochloromethane	8.20		"	10.0		82.0	80-130				
Dibromomethane	9.33		"	10.0		93.3	72-134				
Dichlorodifluoromethane	9.88		"	10.0		98.8	44-144				
Ethyl Benzene	10.7		"	10.0		107	80-131				
Hexachlorobutadiene	9.77		"	10.0		97.7	67-146				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21726 - EPA 5030B											
LCS (BB21726-BS1) LCS								Prepared & Analyzed: 02/10/2022			
Isopropylbenzene	10.6		ug/L	10.0		106	76-140				
Methyl acetate	9.84		"	10.0		98.4	51-139				
Methyl tert-butyl ether (MTBE)	9.11		"	10.0		91.1	76-135				
Methylcyclohexane	11.0		"	10.0		110	72-143				
Methylene chloride	9.92		"	10.0		99.2	55-137				
n-Butylbenzene	11.5		"	10.0		115	79-132				
n-Propylbenzene	11.0		"	10.0		110	78-133				
o-Xylene	10.4		"	10.0		104	78-130				
p- & m- Xylenes	18.3		"	20.0		91.6	77-133				
p-Isopropyltoluene	10.0		"	10.0		100	81-136				
sec-Butylbenzene	10.4		"	10.0		104	79-137				
Styrene	9.84		"	10.0		98.4	67-132				
tert-Butyl alcohol (TBA)	38.5		"	50.0		76.9	25-162				
tert-Butylbenzene	8.02		"	10.0		80.2	77-138				
Tetrachloroethylene	8.53		"	10.0		85.3	82-131				
Toluene	10.2		"	10.0		102	80-127				
trans-1,2-Dichloroethylene	10.2		"	10.0		102	80-132				
trans-1,3-Dichloropropylene	9.35		"	10.0		93.5	78-131				
Trichloroethylene	9.57		"	10.0		95.7	82-128				
Trichlorofluoromethane	10.9		"	10.0		109	67-139				
Vinyl acetate	11.9		"	10.0		119	21-90	High Bias			
Vinyl Chloride	12.1		"	10.0		121	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.7*		*"*	*10.0*		*107*	*79-122*				
LCS Dup (BB21726-BSD1) LCS Dup								Prepared & Analyzed: 02/10/2022			
1,1,1,2-Tetrachloroethane	8.66		ug/L	10.0		86.6	82-126		2.28	30	
1,1,1-Trichloroethane	8.70		"	10.0		87.0	78-136		5.15	30	
1,1,2,2-Tetrachloroethane	9.94		"	10.0		99.4	76-129		0.808	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.50		"	10.0		95.0	54-165		7.11	30	
1,1,2-Trichloroethane	9.08		"	10.0		90.8	82-123		0.663	30	
1,1-Dichloroethane	9.45		"	10.0		94.5	82-129		5.15	30	
1,1-Dichloroethylene	10.2		"	10.0		102	68-138		6.65	30	
1,1-Dichloropropylene	8.90		"	10.0		89.0	83-133		5.04	30	
1,2,3-Trichlorobenzene	7.44		"	10.0		74.4	76-136	Low Bias	0.134	30	
1,2,3-Trichloropropane	9.32		"	10.0		93.2	77-128		1.62	30	
1,2,4-Trichlorobenzene	7.62		"	10.0		76.2	76-137		1.17	30	
1,2,4-Trimethylbenzene	9.35		"	10.0		93.5	82-132		6.12	30	
1,2-Dibromo-3-chloropropane	9.47		"	10.0		94.7	45-147		22.3	30	
1,2-Dibromoethane	9.20		"	10.0		92.0	83-124		3.43	30	
1,2-Dichlorobenzene	9.14		"	10.0		91.4	79-123		2.80	30	
1,2-Dichloroethane	9.77		"	10.0		97.7	73-132		0.00	30	
1,2-Dichloropropane	10.8		"	10.0		108	78-126		2.74	30	
1,3,5-Trimethylbenzene	9.44		"	10.0		94.4	80-131		6.85	30	
1,3-Dichlorobenzene	8.36		"	10.0		83.6	86-122	Low Bias	5.13	30	
1,3-Dichloropropane	9.60		"	10.0		96.0	81-125		0.627	30	
1,4-Dichlorobenzene	8.62		"	10.0		86.2	85-124		5.31	30	
1,4-Dioxane	241		"	210		115	10-349		3.06	30	
2,2-Dichloropropane	9.08		"	10.0		90.8	56-150		6.60	30	
2-Butanone	10.0		"	10.0		100	49-152		3.46	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21726 - EPA 5030B											
LCS Dup (BB21726-BSD1) LCS Dup								Prepared & Analyzed: 02/10/2022			
2-Chlorotoluene	9.68		ug/L	10.0		96.8	79-130		6.50	30	
2-Hexanone	11.5		"	10.0		115	51-146		7.58	30	
4-Chlorotoluene	9.67		"	10.0		96.7	79-128		6.70	30	
4-Methyl-2-pentanone	11.4		"	10.0		114	57-145		6.25	30	
Acetone	10.2		"	10.0		102	14-150		6.79	30	
Acrolein	5.35		"	10.0		53.5	10-153		6.17	30	
Acrylonitrile	10.1		"	10.0		101	51-150		1.20	30	
Benzene	9.31		"	10.0		93.1	85-126		4.82	30	
Bromobenzene	9.69		"	10.0		96.9	78-129		4.24	30	
Bromochloromethane	10.0		"	10.0		100	77-128		3.44	30	
Bromodichloromethane	9.21		"	10.0		92.1	79-128		2.78	30	
Bromoform	7.74		"	10.0		77.4	78-133	Low Bias	2.09	30	
Bromomethane	2.55		"	10.0		25.5	43-168	Low Bias	17.5	30	
Carbon disulfide	9.23		"	10.0		92.3	68-146		6.70	30	
Carbon tetrachloride	8.74		"	10.0		87.4	77-141		5.24	30	
Chlorobenzene	9.58		"	10.0		95.8	88-120		3.29	30	
Chloroethane	9.36		"	10.0		93.6	65-136		7.31	30	
Chloroform	9.16		"	10.0		91.6	82-128		4.06	30	
Chloromethane	8.12		"	10.0		81.2	43-155		12.9	30	
cis-1,2-Dichloroethylene	9.57		"	10.0		95.7	83-129		4.89	30	
cis-1,3-Dichloropropylene	9.45		"	10.0		94.5	80-131		1.68	30	
Cyclohexane	7.88		"	10.0		78.8	63-149		4.22	30	
Dibromochloromethane	8.29		"	10.0		82.9	80-130		1.09	30	
Dibromomethane	9.38		"	10.0		93.8	72-134		0.534	30	
Dichlorodifluoromethane	8.85		"	10.0		88.5	44-144		11.0	30	
Ethyl Benzene	10.4		"	10.0		104	80-131		3.70	30	
Hexachlorobutadiene	9.79		"	10.0		97.9	67-146		0.204	30	
Isopropylbenzene	9.95		"	10.0		99.5	76-140		6.80	30	
Methyl acetate	10.0		"	10.0		100	51-139		1.71	30	
Methyl tert-butyl ether (MTBE)	9.22		"	10.0		92.2	76-135		1.20	30	
Methylcyclohexane	10.6		"	10.0		106	72-143		3.42	30	
Methylene chloride	9.44		"	10.0		94.4	55-137		4.96	30	
n-Butylbenzene	10.9		"	10.0		109	79-132		5.54	30	
n-Propylbenzene	10.3		"	10.0		103	78-133		6.76	30	
o-Xylene	10.1		"	10.0		101	78-130		3.31	30	
p- & m- Xylenes	17.6		"	20.0		88.2	77-133		3.78	30	
p-Isopropyltoluene	9.41		"	10.0		94.1	81-136		6.28	30	
sec-Butylbenzene	9.79		"	10.0		97.9	79-137		6.23	30	
Styrene	9.56		"	10.0		95.6	67-132		2.89	30	
tert-Butyl alcohol (TBA)	42.6		"	50.0		85.1	25-162		10.1	30	
tert-Butylbenzene	7.51		"	10.0		75.1	77-138	Low Bias	6.57	30	
Tetrachloroethylene	8.15		"	10.0		81.5	82-131	Low Bias	4.56	30	
Toluene	9.79		"	10.0		97.9	80-127		3.71	30	
trans-1,2-Dichloroethylene	9.67		"	10.0		96.7	80-132		5.43	30	
trans-1,3-Dichloropropylene	9.31		"	10.0		93.1	78-131		0.429	30	
Trichloroethylene	9.18		"	10.0		91.8	82-128		4.16	30	
Trichlorofluoromethane	9.98		"	10.0		99.8	67-139		8.45	30	
Vinyl acetate	11.3		"	10.0		113	21-90	High Bias	5.61	30	
Vinyl Chloride	11.0		"	10.0		110	58-145		10.1	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21726 - EPA 5030B											
LCS Dup (BB21726-BSD1) LCS Dup									Prepared & Analyzed: 02/10/2022		
Surrogate: SURR: p-Bromofluorobenzene	*10.5*		*ug/L*	*10.0*		*105*	*79-122*				
Batch BB21874 - EPA 5030B											
Blank (BB21874-BLK1) Blank									Prepared & Analyzed: 02/15/2022		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2,2-Dichloropropane	ND	0.500	"								
2-Butanone	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21874 - EPA 5030B											
Blank (BB21874-BLK1) Blank									Prepared & Analyzed: 02/15/2022		
Dibromochloromethane	ND	0.500	ug/L								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl acetate	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.6*		"	*10.0*		*106*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.88*		"	*10.0*		*98.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.8*		"	*10.0*		*108*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21874 - EPA 5030B											
LCS (BB21874-BS1) LCS							Prepared & Analyzed: 02/15/2022				
1,1,1,2-Tetrachloroethane	10.0		ug/L	10.0		100	82-126				
1,1,1-Trichloroethane	10.4		"	10.0		104	78-136				
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6		"	10.0		116	54-165				
1,1,2-Trichloroethane	9.09		"	10.0		90.9	82-123				
1,1-Dichloroethane	10.9		"	10.0		109	82-129				
1,1-Dichloroethylene	12.3		"	10.0		123	68-138				
1,1-Dichloropropylene	10.4		"	10.0		104	83-133				
1,2,3-Trichlorobenzene	8.73		"	10.0		87.3	76-136				
1,2,3-Trichloropropane	9.97		"	10.0		99.7	77-128				
1,2,4-Trichlorobenzene	9.12		"	10.0		91.2	76-137				
1,2,4-Trimethylbenzene	10.6		"	10.0		106	82-132				
1,2-Dibromo-3-chloropropane	9.73		"	10.0		97.3	45-147				
1,2-Dibromoethane	9.21		"	10.0		92.1	83-124				
1,2-Dichlorobenzene	10.3		"	10.0		103	79-123				
1,2-Dichloroethane	10.7		"	10.0		107	73-132				
1,2-Dichloropropane	11.3		"	10.0		113	78-126				
1,3,5-Trimethylbenzene	10.8		"	10.0		108	80-131				
1,3-Dichlorobenzene	9.93		"	10.0		99.3	86-122				
1,3-Dichloropropane	9.66		"	10.0		96.6	81-125				
1,4-Dichlorobenzene	10.1		"	10.0		101	85-124				
1,4-Dioxane	217		"	210		103	10-349				
2,2-Dichloropropane	11.0		"	10.0		110	56-150				
2-Butanone	9.68		"	10.0		96.8	49-152				
2-Chlorotoluene	10.8		"	10.0		108	79-130				
2-Hexanone	10.3		"	10.0		103	51-146				
4-Chlorotoluene	10.9		"	10.0		109	79-128				
4-Methyl-2-pentanone	10.3		"	10.0		103	57-145				
Acetone	9.90		"	10.0		99.0	14-150				
Acrolein	5.06		"	10.0		50.6	10-153				
Acrylonitrile	10.3		"	10.0		103	51-150				
Benzene	10.4		"	10.0		104	85-126				
Bromobenzene	10.5		"	10.0		105	78-129				
Bromochloromethane	11.4		"	10.0		114	77-128				
Bromodichloromethane	9.91		"	10.0		99.1	79-128				
Bromoform	9.53		"	10.0		95.3	78-133				
Bromomethane	4.42		"	10.0		44.2	43-168				
Carbon disulfide	10.8		"	10.0		108	68-146				
Carbon tetrachloride	11.1		"	10.0		111	77-141				
Chlorobenzene	10.5		"	10.0		105	88-120				
Chloroethane	11.3		"	10.0		113	65-136				
Chloroform	10.4		"	10.0		104	82-128				
Chloromethane	12.4		"	10.0		124	43-155				
cis-1,2-Dichloroethylene	11.0		"	10.0		110	83-129				
cis-1,3-Dichloropropylene	10.0		"	10.0		100	80-131				
Cyclohexane	8.72		"	10.0		87.2	63-149				
Dibromochloromethane	9.08		"	10.0		90.8	80-130				
Dibromomethane	9.55		"	10.0		95.5	72-134				
Dichlorodifluoromethane	17.0		"	10.0		170	44-144	High Bias			
Ethyl Benzene	11.1		"	10.0		111	80-131				
Hexachlorobutadiene	10.7		"	10.0		107	67-146				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21874 - EPA 5030B											
LCS (BB21874-BS1) LCS								Prepared & Analyzed: 02/15/2022			
Isopropylbenzene	11.5		ug/L	10.0		115	76-140				
Methyl acetate	9.88		"	10.0		98.8	51-139				
Methyl tert-butyl ether (MTBE)	9.72		"	10.0		97.2	76-135				
Methylcyclohexane	10.7		"	10.0		107	72-143				
Methylene chloride	11.0		"	10.0		110	55-137				
n-Butylbenzene	11.0		"	10.0		110	79-132				
n-Propylbenzene	11.7		"	10.0		117	78-133				
o-Xylene	10.8		"	10.0		108	78-130				
p- & m- Xylenes	19.0		"	20.0		94.8	77-133				
p-Isopropyltoluene	10.9		"	10.0		109	81-136				
sec-Butylbenzene	11.0		"	10.0		110	79-137				
Styrene	10.2		"	10.0		102	67-132				
tert-Butyl alcohol (TBA)	43.6		"	50.0		87.2	25-162				
tert-Butylbenzene	8.89		"	10.0		88.9	77-138				
Tetrachloroethylene	10.2		"	10.0		102	82-131				
Toluene	10.5		"	10.0		105	80-127				
trans-1,2-Dichloroethylene	11.3		"	10.0		113	80-132				
trans-1,3-Dichloropropylene	9.72		"	10.0		97.2	78-131				
Trichloroethylene	10.1		"	10.0		101	82-128				
Trichlorofluoromethane	13.3		"	10.0		133	67-139				
Vinyl acetate	13.2		"	10.0		132	21-90	High Bias			
Vinyl Chloride	14.8		"	10.0		148	58-145	High Bias			
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.87*		*"*	*10.0*		*98.7*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.8*		*"*	*10.0*		*108*	*79-122*				
LCS Dup (BB21874-BSD1) LCS Dup								Prepared & Analyzed: 02/15/2022			
1,1,1,2-Tetrachloroethane	9.68		ug/L	10.0		96.8	82-126		3.25	30	
1,1,1-Trichloroethane	10.0		"	10.0		100	78-136		3.52	30	
1,1,2,2-Tetrachloroethane	9.76		"	10.0		97.6	76-129		4.51	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9		"	10.0		109	54-165		6.30	30	
1,1,2-Trichloroethane	9.11		"	10.0		91.1	82-123		0.220	30	
1,1-Dichloroethane	10.5		"	10.0		105	82-129		3.94	30	
1,1-Dichloroethylene	11.5		"	10.0		115	68-138		6.40	30	
1,1-Dichloropropylene	9.90		"	10.0		99.0	83-133		4.93	30	
1,2,3-Trichlorobenzene	8.95		"	10.0		89.5	76-136		2.49	30	
1,2,3-Trichloropropane	9.56		"	10.0		95.6	77-128		4.20	30	
1,2,4-Trichlorobenzene	9.21		"	10.0		92.1	76-137		0.982	30	
1,2,4-Trimethylbenzene	9.78		"	10.0		97.8	82-132		8.05	30	
1,2-Dibromo-3-chloropropane	8.13		"	10.0		81.3	45-147		17.9	30	
1,2-Dibromoethane	9.35		"	10.0		93.5	83-124		1.51	30	
1,2-Dichlorobenzene	9.80		"	10.0		98.0	79-123		5.17	30	
1,2-Dichloroethane	10.7		"	10.0		107	73-132		0.0934	30	
1,2-Dichloropropane	10.8		"	10.0		108	78-126		4.06	30	
1,3,5-Trimethylbenzene	9.79		"	10.0		97.9	80-131		9.63	30	
1,3-Dichlorobenzene	9.31		"	10.0		93.1	86-122		6.44	30	
1,3-Dichloropropane	9.63		"	10.0		96.3	81-125		0.311	30	
1,4-Dichlorobenzene	9.51		"	10.0		95.1	85-124		6.41	30	
1,4-Dioxane	227		"	210		108	10-349		4.47	30	
2,2-Dichloropropane	10.4		"	10.0		104	56-150		6.18	30	
2-Butanone	10.1		"	10.0		101	49-152		4.64	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21874 - EPA 5030B											
LCS Dup (BB21874-BSD1) LCS Dup								Prepared & Analyzed: 02/15/2022			
2-Chlorotoluene	9.86		ug/L	10.0		98.6	79-130		9.38	30	
2-Hexanone	10.7		"	10.0		107	51-146		4.01	30	
4-Chlorotoluene	9.94		"	10.0		99.4	79-128		9.40	30	
4-Methyl-2-pentanone	10.7		"	10.0		107	57-145		4.19	30	
Acetone	10.3		"	10.0		103	14-150		3.77	30	
Acrolein	5.43		"	10.0		54.3	10-153		7.05	30	
Acrylonitrile	10.8		"	10.0		108	51-150		4.76	30	
Benzene	10.1		"	10.0		101	85-126		3.02	30	
Bromobenzene	9.79		"	10.0		97.9	78-129		7.09	30	
Bromochloromethane	11.2		"	10.0		112	77-128		2.04	30	
Bromodichloromethane	9.62		"	10.0		96.2	79-128		2.97	30	
Bromoform	9.64		"	10.0		96.4	78-133		1.15	30	
Bromomethane	4.62		"	10.0		46.2	43-168		4.42	30	
Carbon disulfide	10.1		"	10.0		101	68-146		6.32	30	
Carbon tetrachloride	10.5		"	10.0		105	77-141		5.55	30	
Chlorobenzene	10.1		"	10.0		101	88-120		3.90	30	
Chloroethane	10.4		"	10.0		104	65-136		8.78	30	
Chloroform	10.1		"	10.0		101	82-128		2.92	30	
Chloromethane	10.9		"	10.0		109	43-155		12.5	30	
cis-1,2-Dichloroethylene	10.6		"	10.0		106	83-129		3.87	30	
cis-1,3-Dichloropropylene	9.76		"	10.0		97.6	80-131		2.63	30	
Cyclohexane	8.40		"	10.0		84.0	63-149		3.74	30	
Dibromochloromethane	9.05		"	10.0		90.5	80-130		0.331	30	
Dibromomethane	9.44		"	10.0		94.4	72-134		1.16	30	
Dichlorodifluoromethane	14.8		"	10.0		148	44-144	High Bias	13.3	30	
Ethyl Benzene	10.6		"	10.0		106	80-131		4.51	30	
Hexachlorobutadiene	11.4		"	10.0		114	67-146		6.17	30	
Isopropylbenzene	10.4		"	10.0		104	76-140		10.1	30	
Methyl acetate	10.2		"	10.0		102	51-139		3.38	30	
Methyl tert-butyl ether (MTBE)	9.97		"	10.0		99.7	76-135		2.54	30	
Methylcyclohexane	10.3		"	10.0		103	72-143		3.89	30	
Methylene chloride	10.6		"	10.0		106	55-137		3.89	30	
n-Butylbenzene	10.5		"	10.0		105	79-132		4.66	30	
n-Propylbenzene	10.6		"	10.0		106	78-133		10.1	30	
o-Xylene	10.4		"	10.0		104	78-130		3.77	30	
p- & m- Xylenes	18.2		"	20.0		90.8	77-133		4.31	30	
p-Isopropyltoluene	10.2		"	10.0		102	81-136		6.93	30	
sec-Butylbenzene	10.2		"	10.0		102	79-137		7.90	30	
Styrene	9.89		"	10.0		98.9	67-132		2.69	30	
tert-Butyl alcohol (TBA)	46.6		"	50.0		93.1	25-162		6.59	30	
tert-Butylbenzene	8.19		"	10.0		81.9	77-138		8.20	30	
Tetrachloroethylene	9.78		"	10.0		97.8	82-131		4.11	30	
Toluene	10.0		"	10.0		100	80-127		4.87	30	
trans-1,2-Dichloroethylene	10.8		"	10.0		108	80-132		4.99	30	
trans-1,3-Dichloropropylene	9.64		"	10.0		96.4	78-131		0.826	30	
Trichloroethylene	9.50		"	10.0		95.0	82-128		5.73	30	
Trichlorofluoromethane	12.1		"	10.0		121	67-139		9.05	30	
Vinyl acetate	13.1		"	10.0		131	21-90	High Bias	0.834	30	
Vinyl Chloride	12.9		"	10.0		129	58-145		13.8	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.82*		*"*	*10.0*		*98.2*	*81-117*				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21874 - EPA 5030B											
LCS Dup (BB21874-BSD1) LCS Dup									Prepared & Analyzed: 02/15/2022		
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*ug/L*	*10.0*		*102*	*79-122*				
Matrix Spike (BB21874-MS1) Matrix Spike	*Source sample: 22B0514-01 (Matrix Spike)								Prepared & Analyzed: 02/15/2022		
1,1,1,2-Tetrachloroethane	9.12		ug/L	10.0	0.00	91.2	45-161				
1,1,1-Trichloroethane	10.0		"	10.0	0.00	100	70-146				
1,1,2,2-Tetrachloroethane	9.43		"	10.0	0.00	94.3	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0	0.00	111	21-217				
1,1,2-Trichloroethane	8.85		"	10.0	0.00	88.5	59-146				
1,1-Dichloroethane	10.4		"	10.0	0.00	104	54-146				
1,1-Dichloroethylene	11.7		"	10.0	0.00	117	44-165				
1,1-Dichloropropylene	9.99		"	10.0	0.00	99.9	82-134				
1,2,3-Trichlorobenzene	8.03		"	10.0	0.00	80.3	40-161				
1,2,3-Trichloropropane	8.67		"	10.0	0.00	86.7	74-127				
1,2,4-Trichlorobenzene	8.42		"	10.0	0.00	84.2	41-161				
1,2,4-Trimethylbenzene	8.86		"	10.0	0.00	88.6	72-129				
1,2-Dibromo-3-chloropropane	6.82		"	10.0	0.00	68.2	31-151				
1,2-Dibromoethane	8.95		"	10.0	0.00	89.5	75-125				
1,2-Dichlorobenzene	8.83		"	10.0	0.00	88.3	63-122				
1,2-Dichloroethane	10.4		"	10.0	0.00	104	68-131				
1,2-Dichloropropane	10.7		"	10.0	0.00	107	77-121				
1,3,5-Trimethylbenzene	9.03		"	10.0	0.00	90.3	69-126				
1,3-Dichlorobenzene	8.40		"	10.0	0.00	84.0	74-119				
1,3-Dichloropropane	9.38		"	10.0	0.00	93.8	77-119				
1,4-Dichlorobenzene	8.50		"	10.0	0.00	85.0	70-124				
1,4-Dioxane	212		"	210	0.00	101	10-310				
2,2-Dichloropropane	10.3		"	10.0	0.00	103	10-160				
2-Butanone	9.57		"	10.0	0.00	95.7	10-193				
2-Chlorotoluene	9.11		"	10.0	0.00	91.1	70-126				
2-Hexanone	10.3		"	10.0	0.00	103	53-133				
4-Chlorotoluene	9.12		"	10.0	0.00	91.2	69-124				
4-Methyl-2-pentanone	10.2		"	10.0	0.00	102	38-150				
Acetone	12.4		"	10.0	2.39	99.6	13-149				
Acrolein	5.24		"	10.0	0.00	52.4	10-195				
Acrylonitrile	10.6		"	10.0	0.00	106	37-165				
Benzene	10.0		"	10.0	0.00	100	38-155				
Bromobenzene	9.17		"	10.0	0.00	91.7	72-122				
Bromochloromethane	11.0		"	10.0	0.00	110	75-121				
Bromodichloromethane	9.12		"	10.0	0.00	91.2	70-129				
Bromoform	8.71		"	10.0	0.00	87.1	66-136				
Bromomethane	3.98		"	10.0	0.00	39.8	30-158				
Carbon disulfide	10.5		"	10.0	0.00	105	10-138				
Carbon tetrachloride	10.5		"	10.0	0.00	105	71-146				
Chlorobenzene	9.77		"	10.0	0.00	97.7	81-117				
Chloroethane	10.7		"	10.0	0.00	107	51-145				
Chloroform	9.87		"	10.0	0.00	98.7	80-124				
Chloromethane	11.0		"	10.0	0.00	110	16-163				
cis-1,2-Dichloroethylene	10.5		"	10.0	0.00	105	76-125				
cis-1,3-Dichloropropylene	9.27		"	10.0	0.00	92.7	58-131				
Cyclohexane	8.60		"	10.0	0.00	86.0	70-130				
Dibromochloromethane	8.49		"	10.0	0.00	84.9	71-129				
Dibromomethane	9.20		"	10.0	0.00	92.0	76-120				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21874 - EPA 5030B											
Matrix Spike (BB21874-MS1) Matrix Spike	*Source sample: 22B0514-01 (Matrix Spike)							Prepared & Analyzed: 02/15/2022			
Dichlorodifluoromethane	14.3		ug/L	10.0	0.00	143	30-147				
Ethyl Benzene	10.5		"	10.0	0.00	105	72-128				
Hexachlorobutadiene	12.3		"	10.0	0.00	123	34-166				
Isopropylbenzene	9.03		"	10.0	0.00	90.3	66-139				
Methyl acetate	9.75		"	10.0	0.00	97.5	10-200				
Methyl tert-butyl ether (MTBE)	9.44		"	10.0	0.00	94.4	75-128				
Methylcyclohexane	10.5		"	10.0	0.00	105	70-130				
Methylene chloride	10.9		"	10.0	0.250	107	57-128				
n-Butylbenzene	10.1		"	10.0	0.00	101	61-138				
n-Propylbenzene	9.98		"	10.0	0.00	99.8	66-134				
o-Xylene	10.1		"	10.0	0.00	101	69-126				
p- & m- Xylenes	17.9		"	20.0	0.00	89.4	67-130				
p-Isopropyltoluene	9.72		"	10.0	0.430	92.9	64-137				
sec-Butylbenzene	9.44		"	10.0	0.00	94.4	53-155				
Styrene	9.40		"	10.0	0.00	94.0	69-125				
tert-Butyl alcohol (TBA)	46.7		"	50.0	0.00	93.4	10-130				
tert-Butylbenzene	7.46		"	10.0	0.00	74.6	65-139				
Tetrachloroethylene	9.69		"	10.0	0.00	96.9	64-139				
Toluene	9.86		"	10.0	0.00	98.6	76-123				
trans-1,2-Dichloroethylene	11.0		"	10.0	0.00	110	79-131				
trans-1,3-Dichloropropylene	9.15		"	10.0	0.00	91.5	55-130				
Trichloroethylene	9.48		"	10.0	0.00	94.8	53-145				
Trichlorofluoromethane	12.5		"	10.0	0.00	125	61-142				
Vinyl acetate	12.3		"	10.0	0.00	123	10-87	High Bias			
Vinyl Chloride	13.4		"	10.0	0.00	134	31-165				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.84*		*"*	*10.0*		*98.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.13*		*"*	*10.0*		*91.3*	*79-122*				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21874 - EPA 5030B											
Matrix Spike Dup (BB21874-M Matrix Spike Dup	*Source sample: 22B0514-01 (Matrix Spike Dup)								Prepared & Analyzed: 02/15/2022		
1,1,1,2-Tetrachloroethane	8.98		ug/L	10.0	0.00	89.8	45-161		1.55	30	
1,1,1-Trichloroethane	9.88		"	10.0	0.00	98.8	70-146		1.61	30	
1,1,2,2-Tetrachloroethane	9.35		"	10.0	0.00	93.5	74-121		0.852	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0	0.00	108	21-217		3.02	30	
1,1,2-Trichloroethane	8.79		"	10.0	0.00	87.9	59-146		0.680	30	
1,1-Dichloroethane	10.2		"	10.0	0.00	102	54-146		1.55	30	
1,1-Dichloroethylene	11.6		"	10.0	0.00	116	44-165		1.20	30	
1,1-Dichloropropylene	9.81		"	10.0	0.00	98.1	82-134		1.82	30	
1,2,3-Trichlorobenzene	8.16		"	10.0	0.00	81.6	40-161		1.61	30	
1,2,3-Trichloropropane	8.67		"	10.0	0.00	86.7	74-127		0.00	30	
1,2,4-Trichlorobenzene	8.58		"	10.0	0.00	85.8	41-161		1.88	30	
1,2,4-Trimethylbenzene	8.76		"	10.0	0.00	87.6	72-129		1.14	30	
1,2-Dibromo-3-chloropropane	8.17		"	10.0	0.00	81.7	31-151		18.0	30	
1,2-Dibromoethane	8.91		"	10.0	0.00	89.1	75-125		0.448	30	
1,2-Dichlorobenzene	8.74		"	10.0	0.00	87.4	63-122		1.02	30	
1,2-Dichloroethane	10.3		"	10.0	0.00	103	68-131		1.26	30	
1,2-Dichloropropane	10.6		"	10.0	0.00	106	77-121		1.13	30	
1,3,5-Trimethylbenzene	8.93		"	10.0	0.00	89.3	69-126		1.11	30	
1,3-Dichlorobenzene	8.30		"	10.0	0.00	83.0	74-119		1.20	30	
1,3-Dichloropropane	9.30		"	10.0	0.00	93.0	77-119		0.857	30	
1,4-Dichlorobenzene	8.44		"	10.0	0.00	84.4	70-124		0.708	30	
1,4-Dioxane	214		"	210	0.00	102	10-310		0.900	30	
2,2-Dichloropropane	10.1		"	10.0	0.00	101	10-160		2.35	30	
2-Butanone	9.24		"	10.0	0.00	92.4	10-193		3.51	30	
2-Chlorotoluene	8.96		"	10.0	0.00	89.6	70-126		1.66	30	
2-Hexanone	10.3		"	10.0	0.00	103	53-133		0.0974	30	
4-Chlorotoluene	8.99		"	10.0	0.00	89.9	69-124		1.44	30	
4-Methyl-2-pentanone	10.2		"	10.0	0.00	102	38-150		0.490	30	
Acetone	11.7		"	10.0	2.39	93.3	13-149		5.23	30	
Acrolein	5.15		"	10.0	0.00	51.5	10-195		1.73	30	
Acrylonitrile	10.4		"	10.0	0.00	104	37-165		1.62	30	
Benzene	9.86		"	10.0	0.00	98.6	38-155		1.61	30	
Bromobenzene	8.87		"	10.0	0.00	88.7	72-122		3.33	30	
Bromochloromethane	10.8		"	10.0	0.00	108	75-121		1.84	30	
Bromodichloromethane	9.09		"	10.0	0.00	90.9	70-129		0.329	30	
Bromoform	8.76		"	10.0	0.00	87.6	66-136		0.572	30	
Bromomethane	5.05		"	10.0	0.00	50.5	30-158		23.7	30	
Carbon disulfide	10.4		"	10.0	0.00	104	10-138		1.15	30	
Carbon tetrachloride	10.5		"	10.0	0.00	105	71-146		0.666	30	
Chlorobenzene	9.64		"	10.0	0.00	96.4	81-117		1.34	30	
Chloroethane	10.4		"	10.0	0.00	104	51-145		2.75	30	
Chloroform	9.73		"	10.0	0.00	97.3	80-124		1.43	30	
Chloromethane	11.0		"	10.0	0.00	110	16-163		0.454	30	
cis-1,2-Dichloroethylene	10.3		"	10.0	0.00	103	76-125		2.02	30	
cis-1,3-Dichloropropylene	9.22		"	10.0	0.00	92.2	58-131		0.541	30	
Cyclohexane	8.45		"	10.0	0.00	84.5	70-130		1.76	30	
Dibromochloromethane	8.38		"	10.0	0.00	83.8	71-129		1.30	30	
Dibromomethane	9.10		"	10.0	0.00	91.0	76-120		1.09	30	
Dichlorodifluoromethane	14.3		"	10.0	0.00	143	30-147		0.280	30	
Ethyl Benzene	10.3		"	10.0	0.00	103	72-128		1.15	30	
Hexachlorobutadiene	12.7		"	10.0	0.00	127	34-166		2.96	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21874 - EPA 5030B											
Matrix Spike Dup (BB21874-M Matrix Spike Dup	*Source sample: 22B0514-01 (Matrix Spike Dup)								Prepared & Analyzed: 02/15/2022		
Isopropylbenzene	8.99		ug/L	10.0	0.00	89.9	66-139		0.444	30	
Methyl acetate	9.62		"	10.0	0.00	96.2	10-200		1.34	30	
Methyl tert-butyl ether (MTBE)	9.39		"	10.0	0.00	93.9	75-128		0.531	30	
Methylcyclohexane	10.2		"	10.0	0.00	102	70-130		2.03	30	
Methylene chloride	10.4		"	10.0	0.250	101	57-128		5.16	30	
n-Butylbenzene	10.2		"	10.0	0.00	102	61-138		1.38	30	
n-Propylbenzene	9.85		"	10.0	0.00	98.5	66-134		1.31	30	
o-Xylene	9.99		"	10.0	0.00	99.9	69-126		1.19	30	
p- & m- Xylenes	17.6		"	20.0	0.00	88.0	67-130		1.47	30	
p-Isopropyltoluene	9.60		"	10.0	0.430	91.7	64-137		1.24	30	
sec-Butylbenzene	9.29		"	10.0	0.00	92.9	53-155		1.60	30	
Styrene	9.28		"	10.0	0.00	92.8	69-125		1.28	30	
tert-Butyl alcohol (TBA)	46.4		"	50.0	0.00	92.9	10-130		0.537	30	
tert-Butylbenzene	7.33		"	10.0	0.00	73.3	65-139		1.76	30	
Tetrachloroethylene	9.50		"	10.0	0.00	95.0	64-139		1.98	30	
Toluene	9.77		"	10.0	0.00	97.7	76-123		0.917	30	
trans-1,2-Dichloroethylene	10.8		"	10.0	0.00	108	79-131		1.75	30	
trans-1,3-Dichloropropylene	9.09		"	10.0	0.00	90.9	55-130		0.658	30	
Trichloroethylene	9.40		"	10.0	0.00	94.0	53-145		0.847	30	
Trichlorofluoromethane	12.2		"	10.0	0.00	122	61-142		1.86	30	
Vinyl acetate	12.7		"	10.0	0.00	127	10-87	High Bias	3.52	30	
Vinyl Chloride	13.6		"	10.0	0.00	136	31-165		1.55	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.85*		*"*	*10.0*		*98.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.23*		*"*	*10.0*		*92.3*	*79-122*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BB21821 - EPA 3510C

Blank (BB21821-BLK1) Blank — Prepared: 02/11/2022 Analyzed: 02/14/2022

1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21821 - EPA 3510C											
Blank (BB21821-BLK1) Blank									Prepared: 02/11/2022 Analyzed: 02/14/2022		
N-Nitrosodiphenylamine	ND	5.00	ug/L								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								
Surrogate: SURR: 2-Fluorophenol	*18.6*		*"*	*50.0*		*37.3*	*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*11.5*		*"*	*50.0*		*23.0*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*21.6*		*"*	*25.0*		*86.5*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*18.8*		*"*	*25.0*		*75.4*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*45.3*		*"*	*50.0*		*90.6*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*22.6*		*"*	*25.0*		*90.3*	*30.7-106*				
Blank (BB21821-BLK2) Blank									Prepared: 02/11/2022 Analyzed: 02/15/2022		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	0.0500	"								
Acenaphthylene	ND	0.0500	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzo(a)anthracene	ND	0.0500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21821 - EPA 3510C											
Blank (BB21821-BLK2) Blank									Prepared: 02/11/2022 Analyzed: 02/15/2022		
Benzo(a)pyrene	ND	0.0500	ug/L								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Pyridine	ND	5.00	"								
Surrogate: SURR: 2-Fluorophenol	*0.00*		*"*	*50.0*			*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*0.00*		*"*	*50.0*			*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*0.00*		*"*	*25.0*			*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.00*		*"*	*25.0*			*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.00*		*"*	*50.0*			*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*0.00*		*"*	*25.0*			*30.7-106*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21821 - EPA 3510C											
LCS (BB21821-BS1) LCS								Prepared: 02/11/2022 Analyzed: 02/14/2022			
1,1-Biphenyl	19.6	5.00	ug/L	25.0		78.6	33-95				
1,2,4,5-Tetrachlorobenzene	21.0	5.00	"	25.0		83.9	26-120				
1,2,4-Trichlorobenzene	18.4	5.00	"	25.0		73.6	20-118				
1,2-Dichlorobenzene	16.9	5.00	"	25.0		67.7	29-111				
1,2-Diphenylhydrazine (as Azobenzene)	15.4	5.00	"	25.0		61.8	16-141				
1,3-Dichlorobenzene	16.1	5.00	"	25.0		64.5	23-117				
1,4-Dichlorobenzene	15.1	5.00	"	25.0		60.4	30-105				
2,3,4,6-Tetrachlorophenol	18.0	5.00	"	25.0		72.1	30-130				
2,4,5-Trichlorophenol	18.4	5.00	"	25.0		73.7	32-114				
2,4,6-Trichlorophenol	20.4	5.00	"	25.0		81.7	35-118				
2,4-Dichlorophenol	19.9	5.00	"	25.0		79.7	25-116				
2,4-Dimethylphenol	13.7	5.00	"	25.0		54.8	15-116				
2,4-Dinitrophenol	14.7	5.00	"	25.0		59.0	10-170				
2,4-Dinitrotoluene	20.3	5.00	"	25.0		81.1	41-128				
2,6-Dinitrotoluene	20.2	5.00	"	25.0		80.8	45-116				
2-Chloronaphthalene	17.2	5.00	"	25.0		68.8	33-112				
2-Chlorophenol	16.7	5.00	"	25.0		66.7	15-120				
2-Methylnaphthalene	18.5	5.00	"	25.0		73.8	24-118				
2-Methylphenol	14.5	5.00	"	25.0		58.1	10-110				
2-Nitroaniline	21.4	5.00	"	25.0		85.5	34-129				
2-Nitrophenol	18.3	5.00	"	25.0		73.1	28-118				
3- & 4-Methylphenols	10.8	5.00	"	25.0		43.1	10-107				
3,3-Dichlorobenzidine	13.1	5.00	"	25.0		52.5	15-187				
3-Nitroaniline	19.8	5.00	"	25.0		79.4	24-134				
4,6-Dinitro-2-methylphenol	16.2	5.00	"	25.0		64.8	10-153				
4-Bromophenyl phenyl ether	18.9	5.00	"	25.0		75.6	34-120				
4-Chloro-3-methylphenol	20.2	5.00	"	25.0		80.8	20-120				
4-Chloroaniline	13.7	5.00	"	25.0		54.9	10-147				
4-Chlorophenyl phenyl ether	20.5	5.00	"	25.0		82.0	27-121				
4-Nitroaniline	17.2	5.00	"	25.0		68.9	13-134				
4-Nitrophenol	7.63	5.00	"	25.0		30.5	10-131				
Acetophenone	18.7	5.00	"	25.0		74.8	25-110				
Aniline	8.75	5.00	"	25.0		35.0	10-117				
Benzaldehyde	15.7	5.00	"	25.0		62.9	29-117				
Benzoic acid	5.84	5.00	"	25.0		23.4	30-130	Low Bias			
Benzyl alcohol	12.0	5.00	"	25.0		47.8	10-117				
Benzyl butyl phthalate	20.0	5.00	"	25.0		79.9	29-133				
Bis(2-chloroethoxy)methane	15.8	5.00	"	25.0		63.2	10-154				
Bis(2-chloroethyl)ether	13.3	5.00	"	25.0		53.0	17-125				
Bis(2-chloroisopropyl)ether	13.3	5.00	"	25.0		53.2	10-139				
Caprolactam	4.27	5.00	"	25.0		17.1	10-137				
Carbazole	18.5	5.00	"	25.0		73.9	42-126				
Dibenzofuran	20.1	5.00	"	25.0		80.3	36-113				
Diethyl phthalate	18.3	5.00	"	25.0		73.1	38-115				
Dimethyl phthalate	18.6	5.00	"	25.0		74.4	38-129				
Di-n-butyl phthalate	18.6	5.00	"	25.0		74.3	31-120				
Di-n-octyl phthalate	18.1	5.00	"	25.0		72.4	21-149				
Hexachlorocyclopentadiene	ND	10.0	"	25.0			10-130	Low Bias			
Isophorone	16.8	5.00	"	25.0		67.2	25-127				
N-nitroso-di-n-propylamine	15.5	5.00	"	25.0		61.9	26-122				
N-Nitrosodiphenylamine	21.6	5.00	"	25.0		86.5	23-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21821 - EPA 3510C											
LCS (BB21821-BS1) LCS								Prepared: 02/11/2022 Analyzed: 02/14/2022			
Phenol	6.60	5.00	ug/L	25.0		26.4	10-110				
Pyridine	11.1	5.00	"	25.5		43.6	10-90				
Surrogate: SURR: 2-Fluorophenol	*16.8*		*"*	*50.0*		*33.5*	*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*11.1*		*"*	*50.0*		*22.3*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*17.3*		*"*	*25.0*		*69.0*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*17.2*		*"*	*25.0*		*68.9*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*43.0*		*"*	*50.0*		*86.1*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*20.3*		*"*	*25.0*		*81.0*	*30.7-106*				
LCS (BB21821-BS2) LCS								Prepared: 02/11/2022 Analyzed: 02/15/2022			
1,1-Biphenyl	ND	5.00	ug/L				33-95				
1,2,4,5-Tetrachlorobenzene	ND	5.00	"				26-120				
1,2,4-Trichlorobenzene	ND	5.00	"	1.00			20-118	Low Bias			
1,2-Dichlorobenzene	ND	5.00	"	1.00			29-111	Low Bias			
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"	1.00			16-141	Low Bias			
1,3-Dichlorobenzene	ND	5.00	"	1.00			23-117	Low Bias			
1,4-Dichlorobenzene	ND	5.00	"	1.00			30-105	Low Bias			
2,3,4,6-Tetrachlorophenol	ND	5.00	"	1.00			30-130	Low Bias			
2,4,5-Trichlorophenol	ND	5.00	"	1.00			32-114	Low Bias			
2,4,6-Trichlorophenol	ND	5.00	"	1.00			35-118	Low Bias			
2,4-Dichlorophenol	ND	5.00	"	1.00			25-116	Low Bias			
2,4-Dimethylphenol	ND	5.00	"	1.00			15-116	Low Bias			
2,4-Dinitrophenol	ND	5.00	"	1.00			10-170	Low Bias			
2,4-Dinitrotoluene	ND	5.00	"	1.00			41-128	Low Bias			
2,6-Dinitrotoluene	ND	5.00	"	1.00			45-116	Low Bias			
2-Chloronaphthalene	ND	5.00	"	1.00			33-112	Low Bias			
2-Chlorophenol	ND	5.00	"	1.00			15-120	Low Bias			
2-Methylnaphthalene	ND	5.00	"	1.00			24-118	Low Bias			
2-Methylphenol	ND	5.00	"	1.00			10-110	Low Bias			
2-Nitroaniline	ND	5.00	"	1.00			34-129	Low Bias			
2-Nitrophenol	ND	5.00	"	1.00			28-118	Low Bias			
3- & 4-Methylphenols	ND	5.00	"	1.00			10-107	Low Bias			
3,3-Dichlorobenzidine	ND	5.00	"				15-187				
3-Nitroaniline	ND	5.00	"	1.00			24-134	Low Bias			
4,6-Dinitro-2-methylphenol	ND	5.00	"	1.00			10-153	Low Bias			
4-Bromophenyl phenyl ether	ND	5.00	"	1.00			34-120	Low Bias			
4-Chloro-3-methylphenol	ND	5.00	"	1.00			20-120	Low Bias			
4-Chloroaniline	ND	5.00	"	1.00			10-147	Low Bias			
4-Chlorophenyl phenyl ether	ND	5.00	"	1.00			27-121	Low Bias			
4-Nitroaniline	ND	5.00	"	1.00			13-134	Low Bias			
4-Nitrophenol	ND	5.00	"	1.00			10-131	Low Bias			
Acenaphthene	0.890	0.0500	"	1.00		89.0	25-116				
Acenaphthylene	0.890	0.0500	"	1.00		89.0	26-116				
Acetophenone	ND	5.00	"				25-110				
Aniline	ND	5.00	"	1.00			10-117	Low Bias			
Anthracene	0.900	0.0500	"	1.00		90.0	25-123				
Benzaldehyde	ND	5.00	"				29-117				
Benzo(a)anthracene	0.980	0.0500	"	1.00		98.0	33-125				
Benzo(a)pyrene	1.15	0.0500	"	1.00		115	32-132				
Benzo(b)fluoranthene	1.24	0.0500	"	1.00		124	22-137				
Benzo(g,h,i)perylene	1.44	0.0500	"	1.00		144	10-138	High Bias			

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21821 - EPA 3510C											
LCS (BB21821-BS2) LCS								Prepared: 02/11/2022 Analyzed: 02/15/2022			
Benzo(k)fluoranthene	1.22	0.0500	ug/L	1.00		122	20-137				
Benzoic acid	ND	5.00	"				30-130				
Benzyl alcohol	ND	5.00	"	1.00			10-117	Low Bias			
Benzyl butyl phthalate	ND	5.00	"	1.00			29-133	Low Bias			
Bis(2-chloroethoxy)methane	ND	5.00	"	1.00			10-154	Low Bias			
Bis(2-chloroethyl)ether	ND	5.00	"	1.00			17-125	Low Bias			
Bis(2-chloroisopropyl)ether	ND	5.00	"	1.00			10-139	Low Bias			
Bis(2-ethylhexyl)phthalate	1.10	0.500	"	1.00		110	10-189				
Caprolactam	ND	5.00	"				10-137				
Carbazole	ND	5.00	"	1.00			42-126	Low Bias			
Chrysene	1.04	0.0500	"	1.00		104	32-124				
Dibenzo(a,h)anthracene	1.43	0.0500	"	1.00		143	16-133	High Bias			
Dibenzofuran	ND	5.00	"	1.00			36-113	Low Bias			
Diethyl phthalate	ND	5.00	"	1.00			38-115	Low Bias			
Dimethyl phthalate	ND	5.00	"	1.00			38-129	Low Bias			
Di-n-butyl phthalate	ND	5.00	"	1.00			31-120	Low Bias			
Di-n-octyl phthalate	ND	5.00	"	1.00			21-149	Low Bias			
Fluoranthene	1.00	0.0500	"	1.00		100	32-121				
Fluorene	0.980	0.0500	"	1.00		98.0	28-118				
Hexachlorobenzene	0.990	0.0200	"	1.00		99.0	23-124				
Hexachlorobutadiene	1.26	0.500	"	1.00		126	15-123	High Bias			
Hexachlorocyclopentadiene	ND	10.0	"	1.00			10-130	Low Bias			
Hexachloroethane	0.900	0.500	"	1.00		90.0	18-115				
Indeno(1,2,3-cd)pyrene	1.31	0.0500	"	1.00		131	15-135				
Isophorone	ND	5.00	"	1.00			25-127	Low Bias			
Naphthalene	0.880	0.0500	"	1.00		88.0	18-120				
Nitrobenzene	0.760	0.250	"	1.00		76.0	21-121				
N-Nitrosodimethylamine	ND	0.500	"	1.00			10-124	Low Bias			
N-nitroso-di-n-propylamine	ND	5.00	"	1.00			26-122	Low Bias			
N-Nitrosodiphenylamine	ND	5.00	"	1.00			23-149	Low Bias			
Pentachlorophenol	1.44	0.250	"	1.00		144	10-156				
Phenanthrene	0.980	0.0500	"	1.00		98.0	24-127				
Phenol	ND	5.00	"	1.00			10-110	Low Bias			
Pyrene	0.940	0.0500	"	1.00		94.0	31-132				
Pyridine	ND	5.00	"	1.00			10-90	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*0.00*		"	*50.0*			*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*0.00*		"	*50.0*			*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*0.00*		"	*25.0*			*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.00*		"	*25.0*			*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.00*		"	*50.0*			*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*0.00*		"	*25.0*			*30.7-106*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21707 - EPA 3535A											
Blank (BB21707-BLK1) Blank								Prepared: 02/10/2022 Analyzed: 02/11/2022			
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*3.68*		*"*	*4.00*		*92.0*	*36.6-118*				
LCS (BB21707-BS1) LCS								Prepared: 02/10/2022 Analyzed: 02/11/2022			
1,4-Dioxane	4.19	0.300	ug/L	4.00		105	50-130				
Surrogate: 1,4-Dioxane-d8	*3.36*		*"*	*4.00*		*84.0*	*36.6-118*				
Matrix Spike (BB21707-MS1) Matrix Spike *Source sample: 22B0396-01 (Matrix Spike)								Prepared: 02/10/2022 Analyzed: 02/14/2022			
1,4-Dioxane	4.16	0.300	ug/L	4.00	ND	104	50-130				
Surrogate: 1,4-Dioxane-d8	*3.84*		*"*	*4.00*		*96.0*	*50-130*				
Matrix Spike Dup (BB21707-M Matrix Spike Dup *Source sample: 22B0396-01 (Matrix Spike Dup)								Prepared: 02/10/2022 Analyzed: 02/14/2022			
1,4-Dioxane	4.19	0.300	ug/L	4.00	ND	105	50-130		0.766	30	
Surrogate: 1,4-Dioxane-d8	*3.36*		*"*	*4.00*		*84.0*	*50-130*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BB21642 - SPE Ext-PFAS-EPA 537.1M

Blank (BB21642-BLK1) Blank — Prepared & Analyzed: 02/09/2022

Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	5.00	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Surrogate: M3PFBS	*51.3*		"	*74.3*		*69.1*	*25-150*				
Surrogate: M5PFHxA	*70.4*		"	*80.0*		*88.0*	*25-150*				
Surrogate: M4PFHpA	*61.4*		"	*80.0*		*76.7*	*25-150*				
Surrogate: M3PFHxS	*72.7*		"	*75.7*		*96.1*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*69.5*		"	*80.0*		*86.9*	*25-150*				
Surrogate: M6PFDA	*68.8*		"	*80.0*		*85.9*	*25-150*				
Surrogate: M7PFUdA	*74.9*		"	*80.0*		*93.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*71.5*		"	*80.0*		*89.3*	*25-150*				
Surrogate: M2PFTeDA	*57.9*		"	*80.0*		*72.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*65.7*		"	*80.0*		*82.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*72.3*		"	*76.6*		*94.4*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*67.8*		"	*80.0*		*84.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*32.1*		"	*80.0*		*40.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*69.5*		"	*80.0*		*86.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*64.9*		"	*80.0*		*81.1*	*25-150*				
Surrogate: M2-6:2 FTS	*61.7*		"	*75.9*		*81.2*	*25-200*				
Surrogate: M2-8:2 FTS	*59.5*		"	*76.6*		*77.7*	*25-200*				
Surrogate: M9PFNA	*73.7*		"	*80.0*		*92.1*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21642 - SPE Ext-PFAS-EPA 537.1M											
LCS (BB21642-BS1) LCS							Prepared & Analyzed: 02/09/2022				
Perfluorobutanesulfonic acid (PFBS)	69.2	2.00	ng/L	70.8		97.8	50-130				
Perfluorohexanoic acid (PFHxA)	72.3	2.00	"	80.0		90.4	50-130				
Perfluoroheptanoic acid (PFHpA)	80.2	2.00	"	80.0		100	50-130				
Perfluorohexanesulfonic acid (PFHxS)	63.9	2.00	"	72.8		87.8	50-130				
Perfluorooctanoic acid (PFOA)	68.4	2.00	"	80.0		85.4	50-130				
Perfluorooctanesulfonic acid (PFOS)	82.9	2.00	"	74.0		112	50-130				
Perfluorononanoic acid (PFNA)	68.4	2.00	"	80.0		85.4	50-130				
Perfluorodecanoic acid (PFDA)	103	2.00	"	80.0		129	50-130				
Perfluoroundecanoic acid (PFUnA)	77.2	2.00	"	80.0		96.5	50-130				
Perfluorododecanoic acid (PFDoA)	72.8	2.00	"	80.0		91.0	50-130				
Perfluorotridecanoic acid (PFTrDA)	68.9	2.00	"	80.0		86.1	50-130				
Perfluorotetradecanoic acid (PFTA)	77.0	2.00	"	80.0		96.2	50-130				
N-MeFOSAA	71.0	2.00	"	80.0		88.7	50-130				
N-EtFOSAA	85.7	2.00	"	80.0		107	50-130				
Perfluoropentanoic acid (PFPeA)	78.8	2.00	"	80.0		98.5	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	71.8	2.00	"	80.0		89.7	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	78.5	2.00	"	76.4		103	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	75.3	2.00	"	77.2		97.5	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	60.3	5.00	"	76.0		79.3	50-175				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	68.9	2.00	"	76.8		89.8	50-175				
Perfluoro-n-butanoic acid (PFBA)	75.0	2.00	"	80.0		93.8	50-130				
Surrogate: M3PFBS	*68.1*		*"*	*74.3*		*91.6*	*25-150*				
Surrogate: M5PFHxA	*76.5*		*"*	*80.0*		*95.6*	*25-150*				
Surrogate: M4PFHpA	*66.7*		*"*	*80.0*		*83.4*	*25-150*				
Surrogate: M3PFHxS	*74.4*		*"*	*75.7*		*98.3*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*80.5*		*"*	*80.0*		*101*	*25-150*				
Surrogate: M6PFDA	*54.5*		*"*	*80.0*		*68.2*	*25-150*				
Surrogate: M7PFUdA	*85.5*		*"*	*80.0*		*107*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*82.3*		*"*	*80.0*		*103*	*25-150*				
Surrogate: M2PFTeDA	*64.3*		*"*	*80.0*		*80.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*72.1*		*"*	*80.0*		*90.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*74.1*		*"*	*76.6*		*96.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*72.7*		*"*	*80.0*		*90.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*70.3*		*"*	*80.0*		*87.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*88.7*		*"*	*80.0*		*111*	*25-150*				
Surrogate: d5-N-EtFOSAA	*94.9*		*"*	*80.0*		*119*	*25-150*				
Surrogate: M2-6:2 FTS	*79.4*		*"*	*75.9*		*105*	*25-200*				
Surrogate: M2-8:2 FTS	*79.7*		*"*	*76.6*		*104*	*25-200*				
Surrogate: M9PFNA	*79.3*		*"*	*80.0*		*99.2*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21642 - SPE Ext-PFAS-EPA 537.1M											
LCS Dup (BB21642-BSD1) LCS Dup							Prepared & Analyzed: 02/09/2022				
Perfluorobutanesulfonic acid (PFBS)	73.9	2.00	ng/L	70.8		104	50-130		6.50	30	
Perfluorohexanoic acid (PFHxA)	77.4	2.00	"	80.0		96.7	50-130		6.81	30	
Perfluoroheptanoic acid (PFHpA)	82.9	2.00	"	80.0		104	50-130		3.25	30	
Perfluorohexanesulfonic acid (PFHxS)	69.1	2.00	"	72.8		94.9	50-130		7.75	30	
Perfluorooctanoic acid (PFOA)	68.9	2.00	"	80.0		86.2	50-130		0.834	30	
Perfluorooctanesulfonic acid (PFOS)	87.3	2.00	"	74.0		118	50-130		5.19	30	
Perfluorononanoic acid (PFNA)	73.5	2.00	"	80.0		91.9	50-130		7.24	30	
Perfluorodecanoic acid (PFDA)	72.4	2.00	"	80.0		90.5	50-130		35.2	30	Non-dir.
Perfluoroundecanoic acid (PFUnA)	90.8	2.00	"	80.0		114	50-130		16.3	30	
Perfluorododecanoic acid (PFDoA)	76.3	2.00	"	80.0		95.4	50-130		4.75	30	
Perfluorotridecanoic acid (PFTrDA)	71.9	2.00	"	80.0		89.8	50-130		4.24	30	
Perfluorotetradecanoic acid (PFTA)	80.7	2.00	"	80.0		101	50-130		4.67	30	
N-MeFOSAA	77.7	2.00	"	80.0		97.2	50-130		9.13	30	
N-EtFOSAA	89.8	2.00	"	80.0		112	50-130		4.68	30	
Perfluoropentanoic acid (PFPeA)	82.8	2.00	"	80.0		103	50-130		4.90	30	
Perfluoro-1-octanesulfonamide (FOSA)	80.2	2.00	"	80.0		100	50-130		11.1	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	78.6	2.00	"	76.4		103	50-130		0.0368	30	
Perfluoro-1-decanesulfonic acid (PFDS)	59.2	2.00	"	77.2		76.7	50-130		23.9	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	76.2	5.00	"	76.0		100	50-175		23.3	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	86.4	2.00	"	76.8		112	50-175		22.4	30	
Perfluoro-n-butanoic acid (PFBA)	80.4	2.00	"	80.0		101	50-130		6.92	30	
Surrogate: M3PFBS	*63.2*		*"*	*74.3*		*85.1*	*25-150*				
Surrogate: M5PFHxA	*68.9*		*"*	*80.0*		*86.1*	*25-150*				
Surrogate: M4PFHpA	*63.4*		*"*	*80.0*		*79.3*	*25-150*				
Surrogate: M3PFHxS	*72.6*		*"*	*75.7*		*95.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*75.6*		*"*	*80.0*		*94.6*	*25-150*				
Surrogate: M6PFDA	*78.7*		*"*	*80.0*		*98.3*	*25-150*				
Surrogate: M7PFUdA	*67.5*		*"*	*80.0*		*84.3*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*64.6*		*"*	*80.0*		*80.8*	*25-150*				
Surrogate: M2PFTeDA	*52.8*		*"*	*80.0*		*66.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*67.3*		*"*	*80.0*		*84.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*70.8*		*"*	*76.6*		*92.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*65.8*		*"*	*80.0*		*82.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*19.5*		*"*	*80.0*		*24.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*63.8*		*"*	*80.0*		*79.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*62.8*		*"*	*80.0*		*78.5*	*25-150*				
Surrogate: M2-6:2 FTS	*62.6*		*"*	*75.9*		*82.5*	*25-200*				
Surrogate: M2-8:2 FTS	*64.5*		*"*	*76.6*		*84.1*	*25-200*				
Surrogate: M9PFNA	*73.8*		*"*	*80.0*		*92.2*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21654 - EPA SW846-3510C Low Level											
Blank (BB21654-BLK1) Blank									Prepared: 02/09/2022 Analyzed: 02/13/2022		
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.140*		*"*	*0.200*		*70.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.115*		*"*	*0.200*		*57.3*	*30-150*				
LCS (BB21654-BS1) LCS									Prepared: 02/09/2022 Analyzed: 02/13/2022		
4,4'-DDD	0.0806	0.00400	ug/L	0.100		80.6	40-140				
4,4'-DDE	0.102	0.00400	"	0.100		102	40-140				
4,4'-DDT	0.101	0.00400	"	0.100		101	40-140				
Aldrin	0.0893	0.00400	"	0.100		89.3	40-140				
alpha-BHC	0.0839	0.00400	"	0.100		83.9	40-140				
alpha-Chlordane	0.0963	0.00400	"	0.100		96.3	40-140				
beta-BHC	0.0783	0.00400	"	0.100		78.3	40-140				
delta-BHC	0.0853	0.00400	"	0.100		85.3	40-140				
Dieldrin	0.100	0.00200	"	0.100		100	40-140				
Endosulfan I	0.0950	0.00400	"	0.100		95.0	40-140				
Endosulfan II	0.0932	0.00400	"	0.100		93.2	40-140				
Endosulfan sulfate	0.0834	0.00400	"	0.100		83.4	40-140				
Endrin	0.106	0.00400	"	0.100		106	40-140				
Endrin aldehyde	0.114	0.0100	"	0.100		114	40-140				
Endrin ketone	0.102	0.0100	"	0.100		102	40-140				
gamma-BHC (Lindane)	0.0857	0.00400	"	0.100		85.7	40-140				
gamma-Chlordane	0.0965	0.0100	"	0.100		96.5	40-140				
Heptachlor	0.0842	0.00400	"	0.100		84.2	40-140				
Heptachlor epoxide	0.0961	0.00400	"	0.100		96.1	40-140				
Methoxychlor	0.119	0.00400	"	0.100		119	40-140				
Surrogate: Decachlorobiphenyl	*0.131*		*"*	*0.200*		*65.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.105*		*"*	*0.200*		*52.5*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21654 - EPA SW846-3510C Low Level											
LCS Dup (BB21654-BSD1) LCS Dup								Prepared: 02/09/2022 Analyzed: 02/13/2022			
4,4'-DDD	0.0841	0.00400	ug/L	0.100		84.1	40-140		4.25	20	
4,4'-DDE	0.106	0.00400	"	0.100		106	40-140		3.70	20	
4,4'-DDT	0.103	0.00400	"	0.100		103	40-140		2.08	20	
Aldrin	0.0915	0.00400	"	0.100		91.5	40-140		2.51	20	
alpha-BHC	0.0880	0.00400	"	0.100		88.0	40-140		4.73	20	
alpha-Chlordane	0.0974	0.00400	"	0.100		97.4	40-140		1.16	20	
beta-BHC	0.0818	0.00400	"	0.100		81.8	40-140		4.44	20	
delta-BHC	0.0888	0.00400	"	0.100		88.8	40-140		4.04	20	
Dieldrin	0.103	0.00200	"	0.100		103	40-140		2.30	20	
Endosulfan I	0.0972	0.00400	"	0.100		97.2	40-140		2.29	20	
Endosulfan II	0.0967	0.00400	"	0.100		96.7	40-140		3.76	20	
Endosulfan sulfate	0.0861	0.00400	"	0.100		86.1	40-140		3.20	20	
Endrin	0.108	0.00400	"	0.100		108	40-140		1.83	20	
Endrin aldehyde	0.114	0.0100	"	0.100		114	40-140		0.140	20	
Endrin ketone	0.107	0.0100	"	0.100		107	40-140		5.62	20	
gamma-BHC (Lindane)	0.0896	0.00400	"	0.100		89.6	40-140		4.39	20	
gamma-Chlordane	0.0981	0.0100	"	0.100		98.1	40-140		1.66	20	
Heptachlor	0.0840	0.00400	"	0.100		84.0	40-140		0.213	20	
Heptachlor epoxide	0.0983	0.00400	"	0.100		98.3	40-140		2.29	20	
Methoxychlor	0.122	0.00400	"	0.100		122	40-140		2.78	20	
Surrogate: Decachlorobiphenyl	*0.138*		*"*	*0.200*		*69.0*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.113*		*"*	*0.200*		*56.6*	*30-150*				
Batch Y2B0801 - BB21154											
Performance Mix (Y2B0801-P Performance Mix								Prepared & Analyzed: 02/07/2022			
4,4'-DDD	17.4		ng/mL	0.00			0-200				
4,4'-DDE	2.85		"	0.00			0-200				
4,4'-DDT	227		"	200		113	0-200				
Endrin	142		"	100		142	0-200				
Endrin aldehyde	7.48		"	0.00			0-200				
Endrin ketone	18.5		"	0.00			0-200				
Surrogate: Decachlorobiphenyl	*276*		*"*	*200*		*138*	*0-200*				
Surrogate: Tetrachloro-m-xylene	*277*		*"*	*200*		*139*	*0-200*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21654 - EPA SW846-3510C Low Level											
Blank (BB21654-BLK2) Blank								Prepared: 02/09/2022 Analyzed: 02/10/2022			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.142*		*"*	*0.200*		*71.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.114*		*"*	*0.200*		*57.0*	*30-120*				
LCS (BB21654-BS2) LCS								Prepared: 02/09/2022 Analyzed: 02/10/2022			
Aroclor 1016	1.01	0.0500	ug/L	1.00		101	40-120				
Aroclor 1260	0.951	0.0500	"	1.00		95.1	40-120				
Surrogate: Tetrachloro-m-xylene	*0.142*		*"*	*0.200*		*71.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.108*		*"*	*0.200*		*54.0*	*30-120*				
LCS Dup (BB21654-BSD2) LCS Dup								Prepared: 02/09/2022 Analyzed: 02/10/2022			
Aroclor 1016	0.964	0.0500	ug/L	1.00		96.4	40-120		4.64	30	
Aroclor 1260	0.888	0.0500	"	1.00		88.8	40-120		6.85	30	
Surrogate: Tetrachloro-m-xylene	*0.137*		*"*	*0.200*		*68.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.107*		*"*	*0.200*		*53.5*	*30-120*				
Batch Y2B1037 - BB21711											
Aroclor Reference (Y2B1037- Aroclor Reference								Prepared & Analyzed: 02/10/2022			
Surrogate: Tetrachloro-m-xylene	*0.200*		*ug/mL*	*0.200*		*100*					
Surrogate: Decachlorobiphenyl	*0.175*		*"*	*0.200*		*87.5*					

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y2B1408 - BB21711											
Aroclor Reference (Y2B1408- Aroclor Reference										Prepared & Analyzed: 02/11/2022	
Surrogate: Tetrachloro-m-xylene	*0.197*		*ug/mL*	*0.200*		*98.5*					
Surrogate: Decachlorobiphenyl	*0.184*		*"*	*0.200*		*92.0*					

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21643 - EPA 8151A											
Blank (BB21643-BLK1) Blank									Prepared: 02/10/2022 Analyzed: 02/11/2022		
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*88.5*		*"*	*125*		*70.8*	*30-150*				
LCS (BB21643-BS1) LCS									Prepared: 02/10/2022 Analyzed: 02/11/2022		
2,4,5-T	18.5	5.00	ug/L	40.0		46.2	10-140				
2,4,5-TP (Silvex)	21.2	5.00	"	40.0		53.1	10-139				
2,4-D	20.5	5.00	"	40.0		51.2	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*78.8*		*"*	*125*		*63.0*	*30-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21742 - EPA 3015A											
Blank (BB21742-BLK1) Blank									Prepared & Analyzed: 02/10/2022		
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BB21742-BS1) LCS									Prepared & Analyzed: 02/10/2022		
Aluminum	1.93		ug/mL	2.00		96.5	80-120				
Barium	2.02		"	2.00		101	80-120				
Calcium	0.968		"	1.00		96.8	80-120				
Chromium	0.197		"	0.200		98.6	80-120				
Cobalt	0.507		"	0.500		101	80-120				
Copper	0.259		"	0.250		104	80-120				
Iron	1.20		"	1.00		120	80-120				
Lead	0.523		"	0.500		105	80-120				
Magnesium	0.959		"	1.00		95.9	80-120				
Manganese	0.505		"	0.500		101	80-120				
Nickel	0.493		"	0.500		98.6	80-120				
Potassium	0.871		"	1.00		87.1	80-120				
Silver	0.0506		"	0.0500		101	80-120				
Sodium	1.00		"	1.00		100	80-120				
Vanadium	0.493		"	0.500		98.6	80-120				
Zinc	0.470		"	0.500		94.1	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21742 - EPA 3015A											
Duplicate (BB21742-DUP1) Duplicate	*Source sample: 22B0396-01 (Duplicate)								Prepared & Analyzed: 02/10/2022		
Aluminum	6.01	0.0556	mg/L		5.52				8.52	20	
Barium	0.326	0.0278	"		0.312				4.31	20	
Calcium	149	0.0556	"		146				1.80	20	
Chromium	0.0157	0.00556	"		0.0168				6.66	20	
Cobalt	0.00612	0.00444	"		0.00536				13.3	20	
Copper	0.211	0.0222	"		0.204				3.41	20	
Iron	19.8	0.278	"		19.9				0.686	20	
Lead	0.268	0.00556	"		0.262				2.03	20	
Magnesium	15.8	0.0556	"		15.5				1.82	20	
Manganese	0.903	0.00556	"		0.868				3.99	20	
Nickel	ND	0.0111	"		ND					20	
Potassium	27.4	0.0556	"		27.0				1.64	20	
Silver	ND	0.00556	"		ND					20	
Sodium	172	0.556	"		170				1.53	20	
Vanadium	0.0191	0.0111	"		0.0200				4.79	20	
Zinc	0.573	0.0278	"		0.531				7.48	20	
Matrix Spike (BB21742-MS1) Matrix Spike	*Source sample: 22B0396-01 (Matrix Spike)								Prepared & Analyzed: 02/10/2022		
Aluminum	7.88	0.0556	mg/L	2.22	5.52	106	75-125				
Barium	2.91	0.0278	"	2.22	0.312	117	75-125				
Calcium	145	0.0556	"	1.11	146	NR	75-125	Low Bias			
Chromium	0.272	0.00556	"	0.222	0.0168	115	75-125				
Cobalt	0.654	0.00444	"	0.556	0.00536	117	75-125				
Copper	0.567	0.0222	"	0.278	0.204	131	75-125	High Bias			
Iron	20.2	0.278	"	1.11	19.9	29.6	75-125	Low Bias			
Lead	0.935	0.00556	"	0.556	0.262	121	75-125				
Magnesium	16.2	0.0556	"	1.11	15.5	57.5	75-125	Low Bias			
Manganese	1.61	0.00556	"	0.556	0.868	134	75-125	High Bias			
Nickel	0.655	0.0111	"	0.556	ND	118	75-125				
Potassium	27.7	0.0556	"	1.11	27.0	64.9	75-125	Low Bias			
Silver	0.0621	0.00556	"	0.0556	ND	112	75-125				
Sodium	167	0.556	"	1.11	170	NR	75-125	Low Bias			
Vanadium	0.664	0.0111	"	0.556	0.0200	116	75-125				
Zinc	1.22	0.0278	"	0.556	0.531	124	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21742 - EPA 3015A											
Post Spike (BB21742-PS1) Post Spike	*Source sample: 22B0396-01 (Post Spike)							Prepared & Analyzed: 02/10/2022			
Aluminum	7.32		ug/mL	2.00	4.97	118	75-125				
Barium	2.62		"	2.00	0.281	117	75-125				
Calcium	130		"	1.00	131	NR	75-125	Low Bias			
Chromium	0.244		"	0.200	0.0151	114	75-125				
Cobalt	0.588		"	0.500	0.00482	117	75-125				
Copper	0.513		"	0.250	0.183	132	75-125	High Bias			
Iron	19.0		"	1.00	17.9	106	75-125				
Lead	0.866		"	0.500	0.236	126	75-125	High Bias			
Magnesium	15.0		"	1.00	14.0	98.7	75-125				
Manganese	1.43		"	0.500	0.781	130	75-125	High Bias			
Nickel	0.609		"	0.500	-0.00412	122	75-125				
Potassium	25.1		"	1.00	24.3	84.4	75-125				
Silver	0.0433		"	0.0500	0.000248	86.2	75-125				
Sodium	150		"	1.00	153	NR	75-125	Low Bias			
Vanadium	0.600		"	0.500	0.0180	116	75-125				
Zinc	1.10		"	0.500	0.478	125	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21916 - EPA 3015A											
Blank (BB21916-BLK1) Blank								Prepared: 02/14/2022 Analyzed: 02/15/2022			
Antimony	ND	0.00111	mg/L								
Arsenic	ND	0.00111	"								
Beryllium	ND	0.000333	"								
Cadmium	ND	0.000556	"								
Selenium	ND	0.00111	"								
Thallium	ND	0.00111	"								
LCS (BB21916-BS1) LCS								Prepared: 02/14/2022 Analyzed: 02/15/2022			
Antimony	45.2		ug/L	50.0		90.4	80-120				
Arsenic	46.7		"	50.0		93.5	80-120				
Beryllium	45.0		"	50.0		90.1	80-120				
Cadmium	46.8		"	50.0		93.6	80-120				
Selenium	38.9		"	50.0		77.7	80-120	Low Bias			
Thallium	47.1		"	50.0		94.2	80-120				
Duplicate (BB21916-DUP1) Duplicate *Source sample: 22B0396-01 (Duplicate)								Prepared: 02/14/2022 Analyzed: 02/15/2022			
Antimony	ND	0.00111	mg/L		ND					20	
Arsenic	0.00145	0.00111	"		0.00788				138	20	Non-dir.
Beryllium	ND	0.000333	"		ND					20	
Cadmium	ND	0.000556	"		0.00133					20	
Selenium	0.0610	0.00111	"		0.00870				150	20	Non-dir.
Thallium	ND	0.00111	"		ND					20	
Matrix Spike (BB21916-MS1) Matrix Spike *Source sample: 22B0396-01 (Matrix Spike)								Prepared: 02/14/2022 Analyzed: 02/15/2022			
Antimony	47.0		ug/L	50.0	0.376	93.2	75-125				
Arsenic	58.5		"	50.0	7.09	103	75-125				
Beryllium	23.4		"	50.0	0.088	46.6	75-125	Low Bias			
Cadmium	43.8		"	50.0	1.20	85.2	75-125				
Selenium	51.0		"	50.0	7.83	86.4	75-125				
Thallium	40.6		"	50.0	0.024	81.2	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21619 - EPA SW846-7470A											
Blank (BB21619-BLK1) Blank								Prepared & Analyzed: 02/08/2022			
Mercury	ND	0.0002	mg/L								
LCS (BB21619-BS1) LCS								Prepared & Analyzed: 02/08/2022			
Mercury	0.0020287	0.0002	mg/L	0.00200		101	80-120				
LCS (BB21619-BS2) LCS								Prepared & Analyzed: 02/08/2022			
Mercury	0.0020255	0.0002	mg/L	0.00200		101	80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21622 - Analysis Preparation												
Blank (BB21622-BLK1)	Blank									Prepared & Analyzed: 02/08/2022		
Chromium, Hexavalent		ND	0.0100	mg/L								
LCS (BB21622-BS1)	LCS									Prepared & Analyzed: 02/08/2022		
Chromium, Hexavalent		0.524	0.0100	mg/L	0.500		105	80-120				
Duplicate (BB21622-DUP1)	Duplicate	*Source sample: 22B0319-04 (035_FB-2)								Prepared & Analyzed: 02/08/2022		
Chromium, Hexavalent		ND	0.0100	mg/L		ND					20	
Matrix Spike (BB21622-MS1)	Matrix Spike	*Source sample: 22B0319-04 (035_FB-2)								Prepared & Analyzed: 02/08/2022		
Chromium, Hexavalent		0.511	0.0100	mg/L	0.500	ND	102	75-125				
Batch BB21760 - Analysis Preparation												
Blank (BB21760-BLK1)	Blank									Prepared & Analyzed: 02/10/2022		
Cyanide, total		ND	0.0100	mg/L								
LCS (BB21760-BS1)	LCS									Prepared & Analyzed: 02/10/2022		
Cyanide, total		0.216	0.0100	mg/L	0.200		108	80-120				
Duplicate (BB21760-DUP1)	Duplicate	*Source sample: 22B0379-01 (Duplicate)								Prepared & Analyzed: 02/10/2022		
Cyanide, total		0.0511	0.0100	mg/L		0.0479				6.39	15	
Matrix Spike (BB21760-MS1)	Matrix Spike	*Source sample: 22B0379-01 (Matrix Spike)								Prepared & Analyzed: 02/10/2022		
Cyanide, total		0.291	0.0100	mg/L	0.200	0.0479	122	79-105	High Bias			

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
22B0319-01	032_LMW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22B0319-02	033_DUP-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22B0319-03	034_LMW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22B0319-04	035_FB-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22B0319-06	037_TB-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
M-CRL	The RL check for this element recovered outside of control limits.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
HT-02	NON-COMPLIANT-This sample was received outside the EPA recommended holding time.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Cal-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22B0319

Page 1 of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Langan	Company:	Company:	100964201	RUSH - Next Day
Address: 300 Kimball Drive, Parsippany, NJ 07054	Address: SAME	Address: SAME	YOUR Project Name: 213 Meadow Street	RUSH - Two Day
Phone: 973 560 4900	Phone:	Phone:		RUSH - Three Day
Contact:	Contact:	Contact:		RUSH - Four Day
E-mail: mmatten@Langan.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) ~~X~~

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Morgan McBride

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ; Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report; CT RCP; Standard Excel EDD
QA Report; CT RCP DQA/DUE; EQuIS (Standard)
NY ASP A Package; NJDEP Reduced Deliverables; NYSDEC EQuIS
(NY ASP B Package); NJDKQP; NJDEP SRP HazSite
Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
032_LMW-1	GW	2/7/22 0935	VOCs, SVOCs, pesticides, PCBs, herbicides, total TAL metals, cyanide, trivalent and hexavalent chromium, 1,4-dioxane, PFAS	
033_DUP-2		1035		
034_LMW-2		1305		
~~035_LMW-3~~				
~~036_LMW-4~~				
~~037_FB-2~~ 035_FB-2	AQ	1400		
~~038_EB-4~~ 036_EB-4	↓	1410	1,4-dioxane, PFAS	
~~039_TB-3~~ 037_TB-3		—	VOCs	

Comments:
5-Day TAT, except PFAS with standard TAT

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Morgan McBride Langan	2/8/22 0930	Langan warehouse	2/8/22 0930	Langan	2/8/22 1120
Andrew S. York	2/8/22 1120	Andrew S. York	2/8/22 1803	N York Lab	2/8/22 1803
N York Lab	2/8/22 2017			Samples Received in LAB by: KBlackie 2/8/22 2017	Temp. Received at Lab: 2.1 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NJ)
300 Kimball Drive, 4th Floor
Parsipanny NJ, 07054-2172
Attention: Molly Mattern

Report Date: 02/17/2022
Client Project ID: 100964201
York Project (SDG) No.: 22B0357

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 02/17/2022
Client Project ID: 100964201
York Project (SDG) No.: 22B0357

Langan Engineering & Environmental Services (NJ)
300 Kimball Drive, 4th Floor
Parsipanny NJ, 07054-2172
Attention: Molly Mattern

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 08, 2022 and listed below. The project was identified as your project: **100964201**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22B0357-01	038_EB-5	Water	02/08/2022	02/08/2022
22B0357-02	039_TB-4	Water	02/08/2022	02/08/2022
22B0357-03	040_LMW-4	Water	02/08/2022	02/08/2022
22B0357-04	041_LMW-3	Water	02/08/2022	02/08/2022

General Notes for York Project (SDG) No.: 22B0357

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By  **Date:** 02/17/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 038_EB-5 **York Sample ID:** 22B0357-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:00 am	02/08/2022

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	02/10/2022 07:43	02/11/2022 14:38	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*100 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL

Sample Information

Client Sample ID: 038_EB-5 **York Sample ID:** 22B0357-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:00 am	02/08/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.46	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:28	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*88.9 %*	*25-150*
Surrogate: M5PFHxA	*93.1 %*	*25-150*
Surrogate: M4PFHpA	*85.4 %*	*25-150*
Surrogate: M3PFHxS	*94.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*95.8 %*	*25-150*
Surrogate: M6PFDA	*99.2 %*	*25-150*
Surrogate: M7PFUdA	*80.8 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*70.9 %*	*25-150*
Surrogate: M2PFTeDA	*37.9 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic aci	*87.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*89.1 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic ac	*89.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfor	*26.0 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*89.0 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*90.1 %*	*25-150*
Surrogate: M2-6:2 FTS	*104 %*	*25-200*
Surrogate: M2-8:2 FTS	*137 %*	*25-200*
Surrogate: M9PFNA	*93.0 %*	*25-150*

Sample Information

Client Sample ID: 039_TB-4 **York Sample ID:** 22B0357-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 039_TB-4 **York Sample ID:** 22B0357-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-93-3	**2-Butanone**	**0.650**	Cal-E	ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**1.12**		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 039_TB-4 **York Sample ID:** 22B0357-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	**Methylene chloride**	**2.67**		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	**tert-Butyl alcohol (TBA)**	**0.610**	CCV-E	ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 039_TB-4 **York Sample ID:** 22B0357-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	02/09/2022 06:48	02/09/2022 15:03	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*	*79-122*

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	**1,2,4-Trimethylbenzene**	**0.270**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-93-3	**2-Butanone**	**0.570**	Cal-E	ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**7.07**		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	**Carbon disulfide**	**0.270**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	**Cyclohexane**	**0.230**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**0.710**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	02/09/2022 06:48	02/09/2022 17:45	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*79-122*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,PADEP		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 15:54	KH
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*29.7 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*17.8 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*57.0 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*59.1 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*82.2 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*82.0 %*	*30.7-106*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**1.66**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
208-96-8	**Acenaphthylene**	**0.0667**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-12-7	**Anthracene**	**0.400**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1912-24-9	Atrazine	ND		ug/L	0.556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
56-55-3	**Benzo(a)anthracene**	**0.0778**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-32-8	**Benzo(a)pyrene**	**0.0778**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
205-99-2	**Benzo(b)fluoranthene**	**0.0667**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
207-08-9	**Benzo(k)fluoranthene**	**0.0667**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
218-01-9	**Chrysene**	**0.0778**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
206-44-0	**Fluoranthene**	**0.356**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.956**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/L	0.0222	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	**Naphthalene**	**2.10**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	0.278	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-86-5	Pentachlorophenol	ND		ug/L	0.278	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
85-01-8	**Phenanthrene**	**1.47**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**0.278**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:13	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	**1,4-Dioxane**	**1.18**		ug/L	0.300	1	EPA 8270D SIM	02/15/2022 08:04	02/15/2022 15:01	KH
							Certifications: NJDEP,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*108 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**12.3**		ng/L	1.89	1	EPA 537m	02/09/2022 10:40	02/10/2022 12:41	WL
							Certifications:			
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**15.3**		ng/L	1.89	1	EPA 537m	02/09/2022 10:40	02/10/2022 12:41	WL
							Certifications:			
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**16.4**		ng/L	1.89	1	EPA 537m	02/09/2022 10:40	02/10/2022 12:41	WL
							Certifications:			

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**20.3**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**94.8**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**79.4**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
375-95-1	* **Perfluorononanoic acid (PFNA)**	**4.24**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
2355-31-9	* **N-MeFOSAA**	**2.05**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
2991-50-6	* **N-EtFOSAA**	**8.34**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**9.53**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.73	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL
375-22-4	* **Perfluoro-n-butanoic acid (PFBA)**	**25.7**		ng/L	1.89	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:41	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*90.6 %*	*25-150*
Surrogate: M5PFHxA	*75.9 %*	*25-150*
Surrogate: M4PFHpA	*55.9 %*	*25-150*
Surrogate: M3PFHxS	*112 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic aci	*103 %*	*25-150*

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M6PFDA	*140 %*		*25-150*						
	Surrogate: M7PFUdA	*146 %*		*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*130 %*		*25-150*						
	Surrogate: M2PFTeDA	*108 %*		*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*84.9 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*117 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*70.4 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*5.96 %*	PFSu-L	*10-150*						
	Surrogate: d3-N-MeFOSAA	*154 %*	PFSu-H	*25-150*						
	Surrogate: d5-N-EtFOSAA	*171 %*	PFSu-H	*25-150*						
	Surrogate: M2-6:2 FTS	*292 %*	PFSu-H	*25-200*						
	Surrogate: M2-8:2 FTS	*224 %*	PFSu-H	*25-200*						
	Surrogate: M9PFNA	*137 %*		*25-150*						

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	**Endosulfan I**	**0.0528**		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
12789-03-6	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:22	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*41.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*48.3 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:06	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:06	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:06	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:06	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:06	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:06	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:06	BJ
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:06	BJ
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.0 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*28.0 %*	S-GC	*30-120*

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 22:11	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 22:11	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 22:11	BJ
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*58.8 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.510**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**0.117**		mg/L	0.0278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**84.5**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**0.00677**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**4.05**		mg/L	0.278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**0.0925**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**64.2**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**0.207**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**40.2**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**63.2**		mg/L	0.556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**0.0470**		mg/L	0.0278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:29	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:20	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**0.00542**		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:20	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/L	0.000333	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:20	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/L	0.000556	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:20	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**0.00248**		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:20	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:20	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0003**		mg/L	0.0002	1	EPA 7470	02/09/2022 19:27	02/09/2022 19:27	AA
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: 040_LMW-4 **York Sample ID:** 22B0357-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 9:50 am	02/08/2022

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	02/08/2022 20:37	02/08/2022 22:36	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	02/15/2022 15:40	02/15/2022 15:55	PAM
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.0591**		mg/L	0.0100	1	SM 4500 CN C/E	02/10/2022 18:00	02/10/2022 21:15	LRW
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-93-3	**2-Butanone**	**0.230**	Cal-E	ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	**Acetone**	**3.44**		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	**Chloroform**	**0.700**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	**cis-1,2-Dichloroethylene**	**0.200**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**0.990**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Volatiles, 8260 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	**Toluene**	**0.630**		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-05-4	Vinyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	02/09/2022 06:48	02/09/2022 18:12	JTG
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*79-122*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,PADEP		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D	02/11/2022 12:57	02/14/2022 16:26	KH
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*30.1 %*	*19.7-63.1*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*22.1 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*73.7 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*76.8 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*94.6 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*93.1 %*	*30.7-106*

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**0.378**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
120-12-7	**Anthracene**	**0.156**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/L	0.556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP		
218-01-9	Chrysene	ND		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Semivolatiles, 8270 Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	**Fluoranthene**	**0.122**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	**Fluorene**	**0.211**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/L	0.0222	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	**Naphthalene**	**0.656**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	0.278	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-86-5	Pentachlorophenol	ND		ug/L	0.278	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
85-01-8	**Phenanthrene**	**0.467**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**0.0889**		ug/L	0.0556	1	EPA 8270D SIM	02/11/2022 12:57	02/15/2022 18:49	KH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes: **HT-01R**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	**1,4-Dioxane**	**0.448**		ug/L	0.300	1	EPA 8270D SIM	02/16/2022 08:00	02/17/2022 10:02	KH
							Certifications: NJDEP,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.0 %*	*36.6-118*

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**8.03**		ng/L	1.79	1	EPA 537m	02/09/2022 10:40	02/10/2022 12:53	WL
							Certifications:			
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**28.9**		ng/L	1.79	1	EPA 537m	02/09/2022 10:40	02/10/2022 12:53	WL
							Certifications:			

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**41.3**		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**9.24**		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**60.8**		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**115**		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
375-95-1	* **Perfluorononanoic acid (PFNA)**	**5.13**		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
335-76-2	* **Perfluorodecanoic acid (PFDA)**	**2.31**		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**51.0**		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
375-92-8	* **Perfluoro-1-heptanesulfonic acid (PFHpS)**	**2.27**		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.46	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL
375-22-4	* **Perfluoro-n-butanoic acid (PFBA)**	**28.1**		ng/L	1.79	1	EPA 537m Certifications:	02/09/2022 10:40	02/10/2022 12:53	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*72.0 %*	*25-150*
Surrogate: M5PFHxA	*67.7 %*	*25-150*
Surrogate: M4PFHpA	*47.5 %*	*25-150*

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	*105 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic aci	*118 %*		*25-150*						
	Surrogate: M6PFDA	*115 %*		*25-150*						
	Surrogate: M7PFUdA	*109 %*		*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecan	*96.7 %*		*25-150*						
	Surrogate: M2PFTeDA	*72.8 %*		*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic aci	*43.9 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*107 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic ac	*45.9 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfor	*4.09 %*	PFSu-L	*10-150*						
	Surrogate: d3-N-MeFOSAA	*133 %*		*25-150*						
	Surrogate: d5-N-EtFOSAA	*139 %*		*25-150*						
	Surrogate: M2-6:2 FTS	*220 %*	PFSu-H	*25-200*						
	Surrogate: M2-8:2 FTS	*297 %*	PFSu-H	*25-200*						
	Surrogate: M9PFNA	*122 %*		*25-150*						

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-55-9	4,4'-DDE	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-29-3	4,4'-DDT	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
309-00-2	Aldrin	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-84-6	alpha-BHC	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-85-7	beta-BHC	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/L	0.00211	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Pesticides, 8081 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/L	0.0105	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/L	0.0105	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/L	0.0105	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
76-44-8	Heptachlor	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-43-5	Methoxychlor	ND		ug/L	0.00421	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
8001-35-2	Toxaphene	ND		ug/L	0.105	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
12789-03-6	* Chlordane, total	ND		ug/L	0.211	1	EPA 8081B	02/09/2022 12:51	02/13/2022 19:39	CM
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*46.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*47.5 %*	*30-150*

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:20	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:20	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:20	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:20	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:20	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:20	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Polychlorinated Biphenyls (PCB), 8082 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:20	BJ
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			
1336-36-3	* Total PCBs	ND		ug/L	0.0526	1	EPA 8082A	02/09/2022 12:51	02/10/2022 21:20	BJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*41.5 %*	*30-120*

Herbicides, 8151 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 22:22	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 22:22	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	02/10/2022 07:00	02/11/2022 22:22	BJ
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*66.8 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**3.63**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**0.152**		mg/L	0.0278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**184**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**0.00894**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**14.3**		mg/L	0.278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**0.0572**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**42.5**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**0.774**		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**24.1**		mg/L	0.0556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**53.2**		mg/L	0.556	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**0.0805**		mg/L	0.0278	1	EPA 6010D	02/10/2022 11:35	02/10/2022 15:32	RTH
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:23	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**0.0205**		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:23	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		mg/L	0.000333	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:23	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/L	0.000556	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:23	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**0.00679**		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:23	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/L	0.00111	1	EPA 6020B	02/14/2022 16:30	02/15/2022 16:23	BML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0003**		mg/L	0.0002	1	EPA 7470	02/09/2022 19:27	02/09/2022 19:27	AA
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: 041_LMW-3 **York Sample ID:** 22B0357-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0357	100964201	Water	February 8, 2022 3:00 pm	02/08/2022

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	02/08/2022 20:37	02/08/2022 22:36	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	02/15/2022 15:40	02/15/2022 15:55	PAM
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.0430**		mg/L	0.0100	1	SM 4500 CN C/E	02/10/2022 18:00	02/10/2022 21:15	LRW
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Analytical Batch Summary

Batch ID: BB21622 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-03	040_LMW-4	02/08/22
22B0357-04	041_LMW-3	02/08/22
BB21622-BLK1	Blank	02/08/22
BB21622-BS1	LCS	02/08/22
BB21622-DUP1	Duplicate	02/08/22
BB21622-MS1	Matrix Spike	02/08/22

Batch ID: BB21642 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** WEL

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-01	038_EB-5	02/09/22
22B0357-03	040_LMW-4	02/09/22
22B0357-04	041_LMW-3	02/09/22
BB21642-BLK1	Blank	02/09/22
BB21642-BS1	LCS	02/09/22
BB21642-BSD1	LCS Dup	02/09/22

Batch ID: BB21643 **Preparation Method:** EPA 8151A **Prepared By:** FTR

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-03	040_LMW-4	02/10/22
22B0357-04	041_LMW-3	02/10/22
BB21643-BLK1	Blank	02/10/22
BB21643-BS1	LCS	02/10/22

Batch ID: BB21654 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** GMA

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-03	040_LMW-4	02/09/22
22B0357-03	040_LMW-4	02/09/22
22B0357-04	041_LMW-3	02/09/22
22B0357-04	041_LMW-3	02/09/22
BB21654-BLK1	Blank	02/09/22
BB21654-BLK2	Blank	02/09/22
BB21654-BS1	LCS	02/09/22
BB21654-BS2	LCS	02/09/22
BB21654-BSD1	LCS Dup	02/09/22
BB21654-BSD2	LCS Dup	02/09/22

Batch ID: BB21678 **Preparation Method:** EPA 5030B **Prepared By:** JTG

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-02	039_TB-4	02/09/22

22B0357-03	040_LMW-4	02/09/22
22B0357-04	041_LMW-3	02/09/22
BB21678-BLK1	Blank	02/09/22
BB21678-BS1	LCS	02/09/22
BB21678-BSD1	LCS Dup	02/09/22

Batch ID: BB21696 **Preparation Method:** EPA SW846-7470A **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-03	040_LMW-4	02/09/22
22B0357-04	041_LMW-3	02/09/22
BB21696-BLK1	Blank	02/09/22
BB21696-BS1	LCS	02/09/22
BB21696-BS2	LCS	02/09/22

Batch ID: BB21707 **Preparation Method:** EPA 3535A **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-01	038_EB-5	02/10/22
BB21707-BLK1	Blank	02/10/22
BB21707-BS1	LCS	02/10/22
BB21707-MS1	Matrix Spike	02/10/22
BB21707-MSD1	Matrix Spike Dup	02/10/22

Batch ID: BB21742 **Preparation Method:** EPA 3015A **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-03	040_LMW-4	02/10/22
22B0357-04	041_LMW-3	02/10/22
BB21742-BLK1	Blank	02/10/22
BB21742-BS1	LCS	02/10/22
BB21742-DUP1	Duplicate	02/10/22
BB21742-MS1	Matrix Spike	02/10/22
BB21742-PS1	Post Spike	02/10/22

Batch ID: BB21760 **Preparation Method:** Analysis Preparation **Prepared By:** LRW

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-03	040_LMW-4	02/10/22
22B0357-04	041_LMW-3	02/10/22
BB21760-BLK1	Blank	02/10/22
BB21760-BS1	LCS	02/10/22
BB21760-DUP1	Duplicate	02/10/22
BB21760-MS1	Matrix Spike	02/10/22

Batch ID: BB21821 **Preparation Method:** EPA 3510C **Prepared By:** GMA

YORK Sample ID	Client Sample ID	Preparation Date

22B0357-03	040_LMW-4	02/11/22
22B0357-04	041_LMW-3	02/11/22
BB21821-BLK1	Blank	02/11/22
BB21821-BLK2	Blank	02/11/22
BB21821-BS1	LCS	02/11/22
BB21821-BS2	LCS	02/11/22

Batch ID: BB21916 **Preparation Method:** EPA 3015A **Prepared By:** S_G

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-03	040_LMW-4	02/14/22
22B0357-04	041_LMW-3	02/14/22
BB21916-BLK1	Blank	02/14/22
BB21916-BS1	LCS	02/14/22
BB21916-DUP1	Duplicate	02/14/22
BB21916-MS1	Matrix Spike	02/14/22

Batch ID: BB21933 **Preparation Method:** EPA 3535A **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-03	040_LMW-4	02/15/22
BB21933-BLK1	Blank	02/15/22
BB21933-BS1	LCS	02/15/22
BB21933-MS1	Matrix Spike	02/15/22
BB21933-MSD1	Matrix Spike Dup	02/15/22

Batch ID: BB21983 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-03	040_LMW-4	02/15/22
22B0357-04	041_LMW-3	02/15/22

Batch ID: BB22025 **Preparation Method:** EPA 3535A **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
22B0357-04	041_LMW-3	02/16/22
BB22025-BLK1	Blank	02/16/22
BB22025-BS1	LCS	02/16/22
BB22025-BSD1	LCS Dup	02/16/22

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21678 - EPA 5030B											
Blank (BB21678-BLK1) Blank									Prepared & Analyzed: 02/09/2022		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2,2-Dichloropropane	ND	0.500	"								
2-Butanone	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21678 - EPA 5030B											
Blank (BB21678-BLK1) Blank									Prepared & Analyzed: 02/09/2022		
Hexachlorobutadiene	ND	0.500	ug/L								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl acetate	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.0*		*"*	*10.0*		*110*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21678 - EPA 5030B											
LCS (BB21678-BS1) LCS							Prepared & Analyzed: 02/09/2022				
1,1,1,2-Tetrachloroethane	8.78		ug/L	10.0		87.8	82-126				
1,1,1-Trichloroethane	9.14		"	10.0		91.4	78-136				
1,1,2,2-Tetrachloroethane	9.46		"	10.0		94.6	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4		"	10.0		104	54-165				
1,1,2-Trichloroethane	8.78		"	10.0		87.8	82-123				
1,1-Dichloroethane	9.78		"	10.0		97.8	82-129				
1,1-Dichloroethylene	10.8		"	10.0		108	68-138				
1,1-Dichloropropylene	9.26		"	10.0		92.6	83-133				
1,2,3-Trichlorobenzene	7.23		"	10.0		72.3	76-136	Low Bias			
1,2,3-Trichloropropane	8.92		"	10.0		89.2	77-128				
1,2,4-Trichlorobenzene	7.57		"	10.0		75.7	76-137	Low Bias			
1,2,4-Trimethylbenzene	9.83		"	10.0		98.3	82-132				
1,2-Dibromo-3-chloropropane	7.29		"	10.0		72.9	45-147				
1,2-Dibromoethane	8.77		"	10.0		87.7	83-124				
1,2-Dichlorobenzene	9.36		"	10.0		93.6	79-123				
1,2-Dichloroethane	9.58		"	10.0		95.8	73-132				
1,2-Dichloropropane	10.6		"	10.0		106	78-126				
1,3,5-Trimethylbenzene	9.95		"	10.0		99.5	80-131				
1,3-Dichlorobenzene	8.84		"	10.0		88.4	86-122				
1,3-Dichloropropane	9.20		"	10.0		92.0	81-125				
1,4-Dichlorobenzene	9.06		"	10.0		90.6	85-124				
1,4-Dioxane	227		"	210		108	10-349				
2,2-Dichloropropane	9.69		"	10.0		96.9	56-150				
2-Butanone	9.40		"	10.0		94.0	49-152				
2-Chlorotoluene	10.1		"	10.0		101	79-130				
2-Hexanone	10.1		"	10.0		101	51-146				
4-Chlorotoluene	10.1		"	10.0		101	79-128				
4-Methyl-2-pentanone	10.0		"	10.0		100	57-145				
Acetone	9.41		"	10.0		94.1	14-150				
Acrolein	5.22		"	10.0		52.2	10-153				
Acrylonitrile	9.64		"	10.0		96.4	51-150				
Benzene	9.73		"	10.0		97.3	85-126				
Bromobenzene	9.80		"	10.0		98.0	78-129				
Bromochloromethane	10.1		"	10.0		101	77-128				
Bromodichloromethane	9.19		"	10.0		91.9	79-128				
Bromoform	7.57		"	10.0		75.7	78-133	Low Bias			
Bromomethane	3.19		"	10.0		31.9	43-168	Low Bias			
Carbon disulfide	10.2		"	10.0		102	68-146				
Carbon tetrachloride	9.22		"	10.0		92.2	77-141				
Chlorobenzene	9.80		"	10.0		98.0	88-120				
Chloroethane	10.4		"	10.0		104	65-136				
Chloroform	9.44		"	10.0		94.4	82-128				
Chloromethane	10.0		"	10.0		100	43-155				
cis-1,2-Dichloroethylene	9.85		"	10.0		98.5	83-129				
cis-1,3-Dichloropropylene	9.31		"	10.0		93.1	80-131				
Cyclohexane	8.15		"	10.0		81.5	63-149				
Dibromochloromethane	8.12		"	10.0		81.2	80-130				
Dibromomethane	8.97		"	10.0		89.7	72-134				
Dichlorodifluoromethane	11.6		"	10.0		116	44-144				
Ethyl Benzene	10.5		"	10.0		105	80-131				
Hexachlorobutadiene	9.73		"	10.0		97.3	67-146				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21678 - EPA 5030B											
LCS (BB21678-BS1) LCS								Prepared & Analyzed: 02/09/2022			
Isopropylbenzene	10.5		ug/L	10.0		105	76-140				
Methyl acetate	9.33		"	10.0		93.3	51-139				
Methyl tert-butyl ether (MTBE)	9.04		"	10.0		90.4	76-135				
Methylcyclohexane	10.8		"	10.0		108	72-143				
Methylene chloride	9.72		"	10.0		97.2	55-137				
n-Butylbenzene	10.9		"	10.0		109	79-132				
n-Propylbenzene	10.8		"	10.0		108	78-133				
o-Xylene	10.2		"	10.0		102	78-130				
p- & m- Xylenes	18.0		"	20.0		90.0	77-133				
p-Isopropyltoluene	9.91		"	10.0		99.1	81-136				
sec-Butylbenzene	10.3		"	10.0		103	79-137				
Styrene	9.76		"	10.0		97.6	67-132				
tert-Butyl alcohol (TBA)	38.7		"	50.0		77.4	25-162				
tert-Butylbenzene	7.97		"	10.0		79.7	77-138				
Tetrachloroethylene	8.48		"	10.0		84.8	82-131				
Toluene	9.92		"	10.0		99.2	80-127				
trans-1,2-Dichloroethylene	10.1		"	10.0		101	80-132				
trans-1,3-Dichloropropylene	9.04		"	10.0		90.4	78-131				
Trichloroethylene	9.41		"	10.0		94.1	82-128				
Trichlorofluoromethane	11.2		"	10.0		112	67-139				
Vinyl acetate	10.8		"	10.0		108	21-90	High Bias			
Vinyl Chloride	12.8		"	10.0		128	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				
LCS Dup (BB21678-BSD1) LCS Dup								Prepared & Analyzed: 02/09/2022			
1,1,1,2-Tetrachloroethane	8.71		ug/L	10.0		87.1	82-126		0.800	30	
1,1,1-Trichloroethane	8.90		"	10.0		89.0	78-136		2.66	30	
1,1,2,2-Tetrachloroethane	9.76		"	10.0		97.6	76-129		3.12	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0		"	10.0		100	54-165		3.13	30	
1,1,2-Trichloroethane	9.06		"	10.0		90.6	82-123		3.14	30	
1,1-Dichloroethane	9.58		"	10.0		95.8	82-129		2.07	30	
1,1-Dichloroethylene	10.4		"	10.0		104	68-138		4.53	30	
1,1-Dichloropropylene	9.05		"	10.0		90.5	83-133		2.29	30	
1,2,3-Trichlorobenzene	7.53		"	10.0		75.3	76-136	Low Bias	4.07	30	
1,2,3-Trichloropropane	9.28		"	10.0		92.8	77-128		3.96	30	
1,2,4-Trichlorobenzene	7.73		"	10.0		77.3	76-137		2.09	30	
1,2,4-Trimethylbenzene	9.33		"	10.0		93.3	82-132		5.22	30	
1,2-Dibromo-3-chloropropane	7.69		"	10.0		76.9	45-147		5.34	30	
1,2-Dibromoethane	9.16		"	10.0		91.6	83-124		4.35	30	
1,2-Dichlorobenzene	9.13		"	10.0		91.3	79-123		2.49	30	
1,2-Dichloroethane	9.71		"	10.0		97.1	73-132		1.35	30	
1,2-Dichloropropane	10.5		"	10.0		105	78-126		0.474	30	
1,3,5-Trimethylbenzene	9.49		"	10.0		94.9	80-131		4.73	30	
1,3-Dichlorobenzene	8.45		"	10.0		84.5	86-122	Low Bias	4.51	30	
1,3-Dichloropropane	9.50		"	10.0		95.0	81-125		3.21	30	
1,4-Dichlorobenzene	8.71		"	10.0		87.1	85-124		3.94	30	
1,4-Dioxane	239		"	210		114	10-349		5.20	30	
2,2-Dichloropropane	9.36		"	10.0		93.6	56-150		3.46	30	
2-Butanone	10.1		"	10.0		101	49-152		7.48	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BB21678 - EPA 5030B

LCS Dup (BB21678-BSD1) LCS Dup — Prepared & Analyzed: 02/09/2022

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
2-Chlorotoluene	9.66		ug/L	10.0		96.6	79-130		4.65	30	
2-Hexanone	11.0		"	10.0		110	51-146		8.70	30	
4-Chlorotoluene	9.66		"	10.0		96.6	79-128		4.75	30	
4-Methyl-2-pentanone	11.0		"	10.0		110	57-145		8.85	30	
Acetone	9.91		"	10.0		99.1	14-150		5.18	30	
Acrolein	5.54		"	10.0		55.4	10-153		5.95	30	
Acrylonitrile	9.76		"	10.0		97.6	51-150		1.24	30	
Benzene	9.53		"	10.0		95.3	85-126		2.08	30	
Bromobenzene	9.61		"	10.0		96.1	78-129		1.96	30	
Bromochloromethane	10.0		"	10.0		100	77-128		0.498	30	
Bromodichloromethane	9.21		"	10.0		92.1	79-128		0.217	30	
Bromoform	8.00		"	10.0		80.0	78-133		5.52	30	
Bromomethane	2.82		"	10.0		28.2	43-168	Low Bias	12.3	30	
Carbon disulfide	9.58		"	10.0		95.8	68-146		5.97	30	
Carbon tetrachloride	8.98		"	10.0		89.8	77-141		2.64	30	
Chlorobenzene	9.63		"	10.0		96.3	88-120		1.75	30	
Chloroethane	9.71		"	10.0		97.1	65-136		6.57	30	
Chloroform	9.23		"	10.0		92.3	82-128		2.25	30	
Chloromethane	8.75		"	10.0		87.5	43-155		13.4	30	
cis-1,2-Dichloroethylene	9.64		"	10.0		96.4	83-129		2.15	30	
cis-1,3-Dichloropropylene	9.34		"	10.0		93.4	80-131		0.322	30	
Cyclohexane	8.00		"	10.0		80.0	63-149		1.86	30	
Dibromochloromethane	8.38		"	10.0		83.8	80-130		3.15	30	
Dibromomethane	9.27		"	10.0		92.7	72-134		3.29	30	
Dichlorodifluoromethane	10.5		"	10.0		105	44-144		10.1	30	
Ethyl Benzene	10.3		"	10.0		103	80-131		2.11	30	
Hexachlorobutadiene	9.98		"	10.0		99.8	67-146		2.54	30	
Isopropylbenzene	9.99		"	10.0		99.9	76-140		5.17	30	
Methyl acetate	10.0		"	10.0		100	51-139		6.93	30	
Methyl tert-butyl ether (MTBE)	9.33		"	10.0		93.3	76-135		3.16	30	
Methylcyclohexane	10.7		"	10.0		107	72-143		0.745	30	
Methylene chloride	9.50		"	10.0		95.0	55-137		2.29	30	
n-Butylbenzene	10.5		"	10.0		105	79-132		3.74	30	
n-Propylbenzene	10.3		"	10.0		103	78-133		5.31	30	
o-Xylene	10.1		"	10.0		101	78-130		1.77	30	
p- & m- Xylenes	17.6		"	20.0		88.0	77-133		2.30	30	
p-Isopropyltoluene	9.46		"	10.0		94.6	81-136		4.65	30	
sec-Butylbenzene	9.75		"	10.0		97.5	79-137		5.29	30	
Styrene	9.65		"	10.0		96.5	67-132		1.13	30	
tert-Butyl alcohol (TBA)	43.1		"	50.0		86.3	25-162		10.8	30	
tert-Butylbenzene	7.57		"	10.0		75.7	77-138	Low Bias	5.15	30	
Tetrachloroethylene	8.36		"	10.0		83.6	82-131		1.43	30	
Toluene	9.78		"	10.0		97.8	80-127		1.42	30	
trans-1,2-Dichloroethylene	9.76		"	10.0		97.6	80-132		3.72	30	
trans-1,3-Dichloropropylene	9.31		"	10.0		93.1	78-131		2.94	30	
Trichloroethylene	9.21		"	10.0		92.1	82-128		2.15	30	
Trichlorofluoromethane	10.5		"	10.0		105	67-139		7.09	30	
Vinyl acetate	11.7		"	10.0		117	21-90	High Bias	7.84	30	
Vinyl Chloride	8.63		"	10.0		86.3	58-145		39.2	30	Non-dir.
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21678 - EPA 5030B											
LCS Dup (BB21678-BSD1) LCS Dup									Prepared & Analyzed: 02/09/2022		
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*ug/L*	*10.0*		*104*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21821 - EPA 3510C											
Blank (BB21821-BLK1) Blank									Prepared: 02/11/2022 Analyzed: 02/14/2022		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21821 - EPA 3510C											
Blank (BB21821-BLK1) Blank									Prepared: 02/11/2022 Analyzed: 02/14/2022		
N-Nitrosodiphenylamine	ND	5.00	ug/L								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								
Surrogate: SURR: 2-Fluorophenol	*18.6*		*"*	*50.0*		*37.3*	*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*11.5*		*"*	*50.0*		*23.0*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*21.6*		*"*	*25.0*		*86.5*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*18.8*		*"*	*25.0*		*75.4*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*45.3*		*"*	*50.0*		*90.6*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*22.6*		*"*	*25.0*		*90.3*	*30.7-106*				
Blank (BB21821-BLK2) Blank									Prepared: 02/11/2022 Analyzed: 02/15/2022		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	0.0500	"								
Acenaphthylene	ND	0.0500	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzo(a)anthracene	ND	0.0500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21821 - EPA 3510C											
Blank (BB21821-BLK2) Blank									Prepared: 02/11/2022 Analyzed: 02/15/2022		
Benzo(a)pyrene	ND	0.0500	ug/L								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Pyridine	ND	5.00	"								
Surrogate: SURR: 2-Fluorophenol	*0.00*		*"*	*50.0*			*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*0.00*		*"*	*50.0*			*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*0.00*		*"*	*25.0*			*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.00*		*"*	*25.0*			*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.00*		*"*	*50.0*			*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*0.00*		*"*	*25.0*			*30.7-106*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21821 - EPA 3510C											
LCS (BB21821-BS1) LCS								Prepared: 02/11/2022 Analyzed: 02/14/2022			
1,1-Biphenyl	19.6	5.00	ug/L	25.0		78.6	33-95				
1,2,4,5-Tetrachlorobenzene	21.0	5.00	"	25.0		83.9	26-120				
1,2,4-Trichlorobenzene	18.4	5.00	"	25.0		73.6	20-118				
1,2-Dichlorobenzene	16.9	5.00	"	25.0		67.7	29-111				
1,2-Diphenylhydrazine (as Azobenzene)	15.4	5.00	"	25.0		61.8	16-141				
1,3-Dichlorobenzene	16.1	5.00	"	25.0		64.5	23-117				
1,4-Dichlorobenzene	15.1	5.00	"	25.0		60.4	30-105				
2,3,4,6-Tetrachlorophenol	18.0	5.00	"	25.0		72.1	30-130				
2,4,5-Trichlorophenol	18.4	5.00	"	25.0		73.7	32-114				
2,4,6-Trichlorophenol	20.4	5.00	"	25.0		81.7	35-118				
2,4-Dichlorophenol	19.9	5.00	"	25.0		79.7	25-116				
2,4-Dimethylphenol	13.7	5.00	"	25.0		54.8	15-116				
2,4-Dinitrophenol	14.7	5.00	"	25.0		59.0	10-170				
2,4-Dinitrotoluene	20.3	5.00	"	25.0		81.1	41-128				
2,6-Dinitrotoluene	20.2	5.00	"	25.0		80.8	45-116				
2-Chloronaphthalene	17.2	5.00	"	25.0		68.8	33-112				
2-Chlorophenol	16.7	5.00	"	25.0		66.7	15-120				
2-Methylnaphthalene	18.5	5.00	"	25.0		73.8	24-118				
2-Methylphenol	14.5	5.00	"	25.0		58.1	10-110				
2-Nitroaniline	21.4	5.00	"	25.0		85.5	34-129				
2-Nitrophenol	18.3	5.00	"	25.0		73.1	28-118				
3- & 4-Methylphenols	10.8	5.00	"	25.0		43.1	10-107				
3,3-Dichlorobenzidine	13.1	5.00	"	25.0		52.5	15-187				
3-Nitroaniline	19.8	5.00	"	25.0		79.4	24-134				
4,6-Dinitro-2-methylphenol	16.2	5.00	"	25.0		64.8	10-153				
4-Bromophenyl phenyl ether	18.9	5.00	"	25.0		75.6	34-120				
4-Chloro-3-methylphenol	20.2	5.00	"	25.0		80.8	20-120				
4-Chloroaniline	13.7	5.00	"	25.0		54.9	10-147				
4-Chlorophenyl phenyl ether	20.5	5.00	"	25.0		82.0	27-121				
4-Nitroaniline	17.2	5.00	"	25.0		68.9	13-134				
4-Nitrophenol	7.63	5.00	"	25.0		30.5	10-131				
Acetophenone	18.7	5.00	"	25.0		74.8	25-110				
Aniline	8.75	5.00	"	25.0		35.0	10-117				
Benzaldehyde	15.7	5.00	"	25.0		62.9	29-117				
Benzoic acid	5.84	5.00	"	25.0		23.4	30-130	Low Bias			
Benzyl alcohol	12.0	5.00	"	25.0		47.8	10-117				
Benzyl butyl phthalate	20.0	5.00	"	25.0		79.9	29-133				
Bis(2-chloroethoxy)methane	15.8	5.00	"	25.0		63.2	10-154				
Bis(2-chloroethyl)ether	13.3	5.00	"	25.0		53.0	17-125				
Bis(2-chloroisopropyl)ether	13.3	5.00	"	25.0		53.2	10-139				
Caprolactam	4.27	5.00	"	25.0		17.1	10-137				
Carbazole	18.5	5.00	"	25.0		73.9	42-126				
Dibenzofuran	20.1	5.00	"	25.0		80.3	36-113				
Diethyl phthalate	18.3	5.00	"	25.0		73.1	38-115				
Dimethyl phthalate	18.6	5.00	"	25.0		74.4	38-129				
Di-n-butyl phthalate	18.6	5.00	"	25.0		74.3	31-120				
Di-n-octyl phthalate	18.1	5.00	"	25.0		72.4	21-149				
Hexachlorocyclopentadiene	ND	10.0	"	25.0			10-130	Low Bias			
Isophorone	16.8	5.00	"	25.0		67.2	25-127				
N-nitroso-di-n-propylamine	15.5	5.00	"	25.0		61.9	26-122				
N-Nitrosodiphenylamine	21.6	5.00	"	25.0		86.5	23-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21821 - EPA 3510C											
LCS (BB21821-BS1) LCS								Prepared: 02/11/2022 Analyzed: 02/14/2022			
Phenol	6.60	5.00	ug/L	25.0		26.4	10-110				
Pyridine	11.1	5.00	"	25.5		43.6	10-90				
Surrogate: SURR: 2-Fluorophenol	*16.8*		*"*	*50.0*		*33.5*	*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*11.1*		*"*	*50.0*		*22.3*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*17.3*		*"*	*25.0*		*69.0*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*17.2*		*"*	*25.0*		*68.9*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*43.0*		*"*	*50.0*		*86.1*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*20.3*		*"*	*25.0*		*81.0*	*30.7-106*				
LCS (BB21821-BS2) LCS								Prepared: 02/11/2022 Analyzed: 02/15/2022			
1,1-Biphenyl	ND	5.00	ug/L				33-95				
1,2,4,5-Tetrachlorobenzene	ND	5.00	"				26-120				
1,2,4-Trichlorobenzene	ND	5.00	"	1.00			20-118	Low Bias			
1,2-Dichlorobenzene	ND	5.00	"	1.00			29-111	Low Bias			
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"	1.00			16-141	Low Bias			
1,3-Dichlorobenzene	ND	5.00	"	1.00			23-117	Low Bias			
1,4-Dichlorobenzene	ND	5.00	"	1.00			30-105	Low Bias			
2,3,4,6-Tetrachlorophenol	ND	5.00	"	1.00			30-130	Low Bias			
2,4,5-Trichlorophenol	ND	5.00	"	1.00			32-114	Low Bias			
2,4,6-Trichlorophenol	ND	5.00	"	1.00			35-118	Low Bias			
2,4-Dichlorophenol	ND	5.00	"	1.00			25-116	Low Bias			
2,4-Dimethylphenol	ND	5.00	"	1.00			15-116	Low Bias			
2,4-Dinitrophenol	ND	5.00	"	1.00			10-170	Low Bias			
2,4-Dinitrotoluene	ND	5.00	"	1.00			41-128	Low Bias			
2,6-Dinitrotoluene	ND	5.00	"	1.00			45-116	Low Bias			
2-Chloronaphthalene	ND	5.00	"	1.00			33-112	Low Bias			
2-Chlorophenol	ND	5.00	"	1.00			15-120	Low Bias			
2-Methylnaphthalene	ND	5.00	"	1.00			24-118	Low Bias			
2-Methylphenol	ND	5.00	"	1.00			10-110	Low Bias			
2-Nitroaniline	ND	5.00	"	1.00			34-129	Low Bias			
2-Nitrophenol	ND	5.00	"	1.00			28-118	Low Bias			
3- & 4-Methylphenols	ND	5.00	"	1.00			10-107	Low Bias			
3,3-Dichlorobenzidine	ND	5.00	"				15-187				
3-Nitroaniline	ND	5.00	"	1.00			24-134	Low Bias			
4,6-Dinitro-2-methylphenol	ND	5.00	"	1.00			10-153	Low Bias			
4-Bromophenyl phenyl ether	ND	5.00	"	1.00			34-120	Low Bias			
4-Chloro-3-methylphenol	ND	5.00	"	1.00			20-120	Low Bias			
4-Chloroaniline	ND	5.00	"	1.00			10-147	Low Bias			
4-Chlorophenyl phenyl ether	ND	5.00	"	1.00			27-121	Low Bias			
4-Nitroaniline	ND	5.00	"	1.00			13-134	Low Bias			
4-Nitrophenol	ND	5.00	"	1.00			10-131	Low Bias			
Acenaphthene	0.890	0.0500	"	1.00		89.0	25-116				
Acenaphthylene	0.890	0.0500	"	1.00		89.0	26-116				
Acetophenone	ND	5.00	"				25-110				
Aniline	ND	5.00	"	1.00			10-117	Low Bias			
Anthracene	0.900	0.0500	"	1.00		90.0	25-123				
Benzaldehyde	ND	5.00	"				29-117				
Benzo(a)anthracene	0.980	0.0500	"	1.00		98.0	33-125				
Benzo(a)pyrene	1.15	0.0500	"	1.00		115	32-132				
Benzo(b)fluoranthene	1.24	0.0500	"	1.00		124	22-137				
Benzo(g,h,i)perylene	1.44	0.0500	"	1.00		144	10-138	High Bias			

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21821 - EPA 3510C											
LCS (BB21821-BS2) LCS								Prepared: 02/11/2022 Analyzed: 02/15/2022			
Benzo(k)fluoranthene	1.22	0.0500	ug/L	1.00		122	20-137				
Benzoic acid	ND	5.00	"				30-130				
Benzyl alcohol	ND	5.00	"	1.00			10-117	Low Bias			
Benzyl butyl phthalate	ND	5.00	"	1.00			29-133	Low Bias			
Bis(2-chloroethoxy)methane	ND	5.00	"	1.00			10-154	Low Bias			
Bis(2-chloroethyl)ether	ND	5.00	"	1.00			17-125	Low Bias			
Bis(2-chloroisopropyl)ether	ND	5.00	"	1.00			10-139	Low Bias			
Bis(2-ethylhexyl)phthalate	1.10	0.500	"	1.00		110	10-189				
Caprolactam	ND	5.00	"				10-137				
Carbazole	ND	5.00	"	1.00			42-126	Low Bias			
Chrysene	1.04	0.0500	"	1.00		104	32-124				
Dibenzo(a,h)anthracene	1.43	0.0500	"	1.00		143	16-133	High Bias			
Dibenzofuran	ND	5.00	"	1.00			36-113	Low Bias			
Diethyl phthalate	ND	5.00	"	1.00			38-115	Low Bias			
Dimethyl phthalate	ND	5.00	"	1.00			38-129	Low Bias			
Di-n-butyl phthalate	ND	5.00	"	1.00			31-120	Low Bias			
Di-n-octyl phthalate	ND	5.00	"	1.00			21-149	Low Bias			
Fluoranthene	1.00	0.0500	"	1.00		100	32-121				
Fluorene	0.980	0.0500	"	1.00		98.0	28-118				
Hexachlorobenzene	0.990	0.0200	"	1.00		99.0	23-124				
Hexachlorobutadiene	1.26	0.500	"	1.00		126	15-123	High Bias			
Hexachlorocyclopentadiene	ND	10.0	"	1.00			10-130	Low Bias			
Hexachloroethane	0.900	0.500	"	1.00		90.0	18-115				
Indeno(1,2,3-cd)pyrene	1.31	0.0500	"	1.00		131	15-135				
Isophorone	ND	5.00	"	1.00			25-127	Low Bias			
Naphthalene	0.880	0.0500	"	1.00		88.0	18-120				
Nitrobenzene	0.760	0.250	"	1.00		76.0	21-121				
N-Nitrosodimethylamine	ND	0.500	"	1.00			10-124	Low Bias			
N-nitroso-di-n-propylamine	ND	5.00	"	1.00			26-122	Low Bias			
N-Nitrosodiphenylamine	ND	5.00	"	1.00			23-149	Low Bias			
Pentachlorophenol	1.44	0.250	"	1.00		144	10-156				
Phenanthrene	0.980	0.0500	"	1.00		98.0	24-127				
Phenol	ND	5.00	"	1.00			10-110	Low Bias			
Pyrene	0.940	0.0500	"	1.00		94.0	31-132				
Pyridine	ND	5.00	"	1.00			10-90	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*0.00*		*"*	*50.0*			*19.7-63.1*				
Surrogate: SURR: Phenol-d5	*0.00*		*"*	*50.0*			*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*0.00*		*"*	*25.0*			*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.00*		*"*	*25.0*			*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.00*		*"*	*50.0*			*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*0.00*		*"*	*25.0*			*30.7-106*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21707 - EPA 3535A											
Blank (BB21707-BLK1) Blank								Prepared: 02/10/2022 Analyzed: 02/11/2022			
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*3.68*		*"*	*4.00*		*92.0*	*36.6-118*				
LCS (BB21707-BS1) LCS								Prepared: 02/10/2022 Analyzed: 02/11/2022			
1,4-Dioxane	4.19	0.300	ug/L	4.00		105	50-130				
Surrogate: 1,4-Dioxane-d8	*3.36*		*"*	*4.00*		*84.0*	*36.6-118*				
Matrix Spike (BB21707-MS1) Matrix Spike *Source sample: 22B0396-01 (Matrix Spike)								Prepared: 02/10/2022 Analyzed: 02/14/2022			
1,4-Dioxane	4.16	0.300	ug/L	4.00	ND	104	50-130				
Surrogate: 1,4-Dioxane-d8	*3.84*		*"*	*4.00*		*96.0*	*50-130*				
Matrix Spike Dup (BB21707-M Matrix Spike Dup *Source sample: 22B0396-01 (Matrix Spike Dup)								Prepared: 02/10/2022 Analyzed: 02/14/2022			
1,4-Dioxane	4.19	0.300	ug/L	4.00	ND	105	50-130		0.766	30	
Surrogate: 1,4-Dioxane-d8	*3.36*		*"*	*4.00*		*84.0*	*50-130*				
Batch BB21933 - EPA 3535A											
Blank (BB21933-BLK1) Blank								Prepared & Analyzed: 02/15/2022			
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*4.00*		*"*	*4.00*		*100*	*36.6-118*				
LCS (BB21933-BS1) LCS								Prepared & Analyzed: 02/15/2022			
1,4-Dioxane	4.00	0.300	ug/L	4.00		100	50-130				
Surrogate: 1,4-Dioxane-d8	*4.32*		*"*	*4.00*		*108*	*36.6-118*				
Matrix Spike (BB21933-MS1) Matrix Spike *Source sample: 22B0506-03 (Matrix Spike)								Prepared & Analyzed: 02/15/2022			
1,4-Dioxane	4.00	0.300	ug/L	4.00	ND	100	50-130				
Surrogate: 1,4-Dioxane-d8	*4.00*		*"*	*4.00*		*100*	*50-130*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21933 - EPA 3535A											
Matrix Spike Dup (BB21933-M Matrix Spike Dup	*Source sample: 22B0506-03 (Matrix Spike Dup)							Prepared & Analyzed: 02/15/2022			
1,4-Dioxane	4.00	0.300	ug/L	4.00	ND	100	50-130		0.00	30	
Surrogate: 1,4-Dioxane-d8	*4.00*		"	*4.00*		*100*	*50-130*				
Batch BB22025 - EPA 3535A											
Blank (BB22025-BLK1) Blank								Prepared: 02/16/2022 Analyzed: 02/17/2022			
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*3.52*		"	*4.00*		*88.0*	*36.6-118*				
LCS (BB22025-BS1) LCS								Prepared: 02/16/2022 Analyzed: 02/17/2022			
1,4-Dioxane	4.19	0.300	ug/L	4.00		105	50-130				
Surrogate: 1,4-Dioxane-d8	*3.36*		"	*4.00*		*84.0*	*36.6-118*				
LCS Dup (BB22025-BSD1) LCS Dup								Prepared: 02/16/2022 Analyzed: 02/17/2022			
1,4-Dioxane	3.81	0.300	ug/L	4.00		95.2	50-130		9.60	30	
Surrogate: 1,4-Dioxane-d8	*3.20*		"	*4.00*		*80.0*	*36.6-118*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21642 - SPE Ext-PFAS-EPA 537.1M											
Blank (BB21642-BLK1) Blank									Prepared & Analyzed: 02/09/2022		
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	5.00	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Surrogate: M3PFBS	*51.3*		"	*74.3*		*69.1*	*25-150*				
Surrogate: M5PFHxA	*70.4*		"	*80.0*		*88.0*	*25-150*				
Surrogate: M4PFHpA	*61.4*		"	*80.0*		*76.7*	*25-150*				
Surrogate: M3PFHxS	*72.7*		"	*75.7*		*96.1*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*69.5*		"	*80.0*		*86.9*	*25-150*				
Surrogate: M6PFDA	*68.8*		"	*80.0*		*85.9*	*25-150*				
Surrogate: M7PFUdA	*74.9*		"	*80.0*		*93.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*71.5*		"	*80.0*		*89.3*	*25-150*				
Surrogate: M2PFTeDA	*57.9*		"	*80.0*		*72.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*65.7*		"	*80.0*		*82.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*72.3*		"	*76.6*		*94.4*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*67.8*		"	*80.0*		*84.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*32.1*		"	*80.0*		*40.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*69.5*		"	*80.0*		*86.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*64.9*		"	*80.0*		*81.1*	*25-150*				
Surrogate: M2-6:2 FTS	*61.7*		"	*75.9*		*81.2*	*25-200*				
Surrogate: M2-8:2 FTS	*59.5*		"	*76.6*		*77.7*	*25-200*				
Surrogate: M9PFNA	*73.7*		"	*80.0*		*92.1*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21642 - SPE Ext-PFAS-EPA 537.1M											
LCS (BB21642-BS1) LCS							Prepared & Analyzed: 02/09/2022				
Perfluorobutanesulfonic acid (PFBS)	69.2	2.00	ng/L	70.8		97.8	50-130				
Perfluorohexanoic acid (PFHxA)	72.3	2.00	"	80.0		90.4	50-130				
Perfluoroheptanoic acid (PFHpA)	80.2	2.00	"	80.0		100	50-130				
Perfluorohexanesulfonic acid (PFHxS)	63.9	2.00	"	72.8		87.8	50-130				
Perfluorooctanoic acid (PFOA)	68.4	2.00	"	80.0		85.4	50-130				
Perfluorooctanesulfonic acid (PFOS)	82.9	2.00	"	74.0		112	50-130				
Perfluorononanoic acid (PFNA)	68.4	2.00	"	80.0		85.4	50-130				
Perfluorodecanoic acid (PFDA)	103	2.00	"	80.0		129	50-130				
Perfluoroundecanoic acid (PFUnA)	77.2	2.00	"	80.0		96.5	50-130				
Perfluorododecanoic acid (PFDoA)	72.8	2.00	"	80.0		91.0	50-130				
Perfluorotridecanoic acid (PFTrDA)	68.9	2.00	"	80.0		86.1	50-130				
Perfluorotetradecanoic acid (PFTA)	77.0	2.00	"	80.0		96.2	50-130				
N-MeFOSAA	71.0	2.00	"	80.0		88.7	50-130				
N-EtFOSAA	85.7	2.00	"	80.0		107	50-130				
Perfluoropentanoic acid (PFPeA)	78.8	2.00	"	80.0		98.5	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	71.8	2.00	"	80.0		89.7	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	78.5	2.00	"	76.4		103	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	75.3	2.00	"	77.2		97.5	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	60.3	5.00	"	76.0		79.3	50-175				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	68.9	2.00	"	76.8		89.8	50-175				
Perfluoro-n-butanoic acid (PFBA)	75.0	2.00	"	80.0		93.8	50-130				
Surrogate: M3PFBS	*68.1*		*"*	*74.3*		*91.6*	*25-150*				
Surrogate: M5PFHxA	*76.5*		*"*	*80.0*		*95.6*	*25-150*				
Surrogate: M4PFHpA	*66.7*		*"*	*80.0*		*83.4*	*25-150*				
Surrogate: M3PFHxS	*74.4*		*"*	*75.7*		*98.3*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*80.5*		*"*	*80.0*		*101*	*25-150*				
Surrogate: M6PFDA	*54.5*		*"*	*80.0*		*68.2*	*25-150*				
Surrogate: M7PFUdA	*85.5*		*"*	*80.0*		*107*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*82.3*		*"*	*80.0*		*103*	*25-150*				
Surrogate: M2PFTeDA	*64.3*		*"*	*80.0*		*80.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*72.1*		*"*	*80.0*		*90.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*74.1*		*"*	*76.6*		*96.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*72.7*		*"*	*80.0*		*90.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*70.3*		*"*	*80.0*		*87.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*88.7*		*"*	*80.0*		*111*	*25-150*				
Surrogate: d5-N-EtFOSAA	*94.9*		*"*	*80.0*		*119*	*25-150*				
Surrogate: M2-6:2 FTS	*79.4*		*"*	*75.9*		*105*	*25-200*				
Surrogate: M2-8:2 FTS	*79.7*		*"*	*76.6*		*104*	*25-200*				
Surrogate: M9PFNA	*79.3*		*"*	*80.0*		*99.2*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21642 - SPE Ext-PFAS-EPA 537.1M											
LCS Dup (BB21642-BSD1) LCS Dup							Prepared & Analyzed: 02/09/2022				
Perfluorobutanesulfonic acid (PFBS)	73.9	2.00	ng/L	70.8		104	50-130		6.50	30	
Perfluorohexanoic acid (PFHxA)	77.4	2.00	"	80.0		96.7	50-130		6.81	30	
Perfluoroheptanoic acid (PFHpA)	82.9	2.00	"	80.0		104	50-130		3.25	30	
Perfluorohexanesulfonic acid (PFHxS)	69.1	2.00	"	72.8		94.9	50-130		7.75	30	
Perfluorooctanoic acid (PFOA)	68.9	2.00	"	80.0		86.2	50-130		0.834	30	
Perfluorooctanesulfonic acid (PFOS)	87.3	2.00	"	74.0		118	50-130		5.19	30	
Perfluorononanoic acid (PFNA)	73.5	2.00	"	80.0		91.9	50-130		7.24	30	
Perfluorodecanoic acid (PFDA)	72.4	2.00	"	80.0		90.5	50-130		35.2	30	Non-dir.
Perfluoroundecanoic acid (PFUnA)	90.8	2.00	"	80.0		114	50-130		16.3	30	
Perfluorododecanoic acid (PFDoA)	76.3	2.00	"	80.0		95.4	50-130		4.75	30	
Perfluorotridecanoic acid (PFTrDA)	71.9	2.00	"	80.0		89.8	50-130		4.24	30	
Perfluorotetradecanoic acid (PFTA)	80.7	2.00	"	80.0		101	50-130		4.67	30	
N-MeFOSAA	77.7	2.00	"	80.0		97.2	50-130		9.13	30	
N-EtFOSAA	89.8	2.00	"	80.0		112	50-130		4.68	30	
Perfluoropentanoic acid (PFPeA)	82.8	2.00	"	80.0		103	50-130		4.90	30	
Perfluoro-1-octanesulfonamide (FOSA)	80.2	2.00	"	80.0		100	50-130		11.1	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	78.6	2.00	"	76.4		103	50-130		0.0368	30	
Perfluoro-1-decanesulfonic acid (PFDS)	59.2	2.00	"	77.2		76.7	50-130		23.9	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	76.2	5.00	"	76.0		100	50-175		23.3	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	86.4	2.00	"	76.8		112	50-175		22.4	30	
Perfluoro-n-butanoic acid (PFBA)	80.4	2.00	"	80.0		101	50-130		6.92	30	
Surrogate: M3PFBS	*63.2*		*"*	*74.3*		*85.1*	*25-150*				
Surrogate: M5PFHxA	*68.9*		*"*	*80.0*		*86.1*	*25-150*				
Surrogate: M4PFHpA	*63.4*		*"*	*80.0*		*79.3*	*25-150*				
Surrogate: M3PFHxS	*72.6*		*"*	*75.7*		*95.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*75.6*		*"*	*80.0*		*94.6*	*25-150*				
Surrogate: M6PFDA	*78.7*		*"*	*80.0*		*98.3*	*25-150*				
Surrogate: M7PFUdA	*67.5*		*"*	*80.0*		*84.3*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*64.6*		*"*	*80.0*		*80.8*	*25-150*				
Surrogate: M2PFTeDA	*52.8*		*"*	*80.0*		*66.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*67.3*		*"*	*80.0*		*84.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*70.8*		*"*	*76.6*		*92.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*65.8*		*"*	*80.0*		*82.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*19.5*		*"*	*80.0*		*24.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*63.8*		*"*	*80.0*		*79.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*62.8*		*"*	*80.0*		*78.5*	*25-150*				
Surrogate: M2-6:2 FTS	*62.6*		*"*	*75.9*		*82.5*	*25-200*				
Surrogate: M2-8:2 FTS	*64.5*		*"*	*76.6*		*84.1*	*25-200*				
Surrogate: M9PFNA	*73.8*		*"*	*80.0*		*92.2*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21654 - EPA SW846-3510C Low Level											
Blank (BB21654-BLK1) Blank									Prepared: 02/09/2022 Analyzed: 02/13/2022		
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.140*		*"*	*0.200*		*70.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.115*		*"*	*0.200*		*57.3*	*30-150*				
LCS (BB21654-BS1) LCS									Prepared: 02/09/2022 Analyzed: 02/13/2022		
4,4'-DDD	0.0806	0.00400	ug/L	0.100		80.6	40-140				
4,4'-DDE	0.102	0.00400	"	0.100		102	40-140				
4,4'-DDT	0.101	0.00400	"	0.100		101	40-140				
Aldrin	0.0893	0.00400	"	0.100		89.3	40-140				
alpha-BHC	0.0839	0.00400	"	0.100		83.9	40-140				
alpha-Chlordane	0.0963	0.00400	"	0.100		96.3	40-140				
beta-BHC	0.0783	0.00400	"	0.100		78.3	40-140				
delta-BHC	0.0853	0.00400	"	0.100		85.3	40-140				
Dieldrin	0.100	0.00200	"	0.100		100	40-140				
Endosulfan I	0.0950	0.00400	"	0.100		95.0	40-140				
Endosulfan II	0.0932	0.00400	"	0.100		93.2	40-140				
Endosulfan sulfate	0.0834	0.00400	"	0.100		83.4	40-140				
Endrin	0.106	0.00400	"	0.100		106	40-140				
Endrin aldehyde	0.114	0.0100	"	0.100		114	40-140				
Endrin ketone	0.102	0.0100	"	0.100		102	40-140				
gamma-BHC (Lindane)	0.0857	0.00400	"	0.100		85.7	40-140				
gamma-Chlordane	0.0965	0.0100	"	0.100		96.5	40-140				
Heptachlor	0.0842	0.00400	"	0.100		84.2	40-140				
Heptachlor epoxide	0.0961	0.00400	"	0.100		96.1	40-140				
Methoxychlor	0.119	0.00400	"	0.100		119	40-140				
Surrogate: Decachlorobiphenyl	*0.131*		*"*	*0.200*		*65.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.105*		*"*	*0.200*		*52.5*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21654 - EPA SW846-3510C Low Level											
LCS Dup (BB21654-BSD1) LCS Dup								Prepared: 02/09/2022 Analyzed: 02/13/2022			
4,4'-DDD	0.0841	0.00400	ug/L	0.100		84.1	40-140		4.25	20	
4,4'-DDE	0.106	0.00400	"	0.100		106	40-140		3.70	20	
4,4'-DDT	0.103	0.00400	"	0.100		103	40-140		2.08	20	
Aldrin	0.0915	0.00400	"	0.100		91.5	40-140		2.51	20	
alpha-BHC	0.0880	0.00400	"	0.100		88.0	40-140		4.73	20	
alpha-Chlordane	0.0974	0.00400	"	0.100		97.4	40-140		1.16	20	
beta-BHC	0.0818	0.00400	"	0.100		81.8	40-140		4.44	20	
delta-BHC	0.0888	0.00400	"	0.100		88.8	40-140		4.04	20	
Dieldrin	0.103	0.00200	"	0.100		103	40-140		2.30	20	
Endosulfan I	0.0972	0.00400	"	0.100		97.2	40-140		2.29	20	
Endosulfan II	0.0967	0.00400	"	0.100		96.7	40-140		3.76	20	
Endosulfan sulfate	0.0861	0.00400	"	0.100		86.1	40-140		3.20	20	
Endrin	0.108	0.00400	"	0.100		108	40-140		1.83	20	
Endrin aldehyde	0.114	0.0100	"	0.100		114	40-140		0.140	20	
Endrin ketone	0.107	0.0100	"	0.100		107	40-140		5.62	20	
gamma-BHC (Lindane)	0.0896	0.00400	"	0.100		89.6	40-140		4.39	20	
gamma-Chlordane	0.0981	0.0100	"	0.100		98.1	40-140		1.66	20	
Heptachlor	0.0840	0.00400	"	0.100		84.0	40-140		0.213	20	
Heptachlor epoxide	0.0983	0.00400	"	0.100		98.3	40-140		2.29	20	
Methoxychlor	0.122	0.00400	"	0.100		122	40-140		2.78	20	
Surrogate: Decachlorobiphenyl	*0.138*		*"*	*0.200*		*69.0*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.113*		*"*	*0.200*		*56.6*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21654 - EPA SW846-3510C Low Level											
Blank (BB21654-BLK2) Blank									Prepared: 02/09/2022 Analyzed: 02/10/2022		
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.142*		*"*	*0.200*		*71.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.114*		*"*	*0.200*		*57.0*	*30-120*				
LCS (BB21654-BS2) LCS									Prepared: 02/09/2022 Analyzed: 02/10/2022		
Aroclor 1016	1.01	0.0500	ug/L	1.00		101	40-120				
Aroclor 1260	0.951	0.0500	"	1.00		95.1	40-120				
Surrogate: Tetrachloro-m-xylene	*0.142*		*"*	*0.200*		*71.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.108*		*"*	*0.200*		*54.0*	*30-120*				
LCS Dup (BB21654-BSD2) LCS Dup									Prepared: 02/09/2022 Analyzed: 02/10/2022		
Aroclor 1016	0.964	0.0500	ug/L	1.00		96.4	40-120		4.64	30	
Aroclor 1260	0.888	0.0500	"	1.00		88.8	40-120		6.85	30	
Surrogate: Tetrachloro-m-xylene	*0.137*		*"*	*0.200*		*68.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.107*		*"*	*0.200*		*53.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21643 - EPA 8151A											
Blank (BB21643-BLK1) Blank									Prepared: 02/10/2022 Analyzed: 02/11/2022		
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*88.5*		*"*	*125*		*70.8*	*30-150*				
LCS (BB21643-BS1) LCS									Prepared: 02/10/2022 Analyzed: 02/11/2022		
2,4,5-T	18.5	5.00	ug/L	40.0		46.2	10-140				
2,4,5-TP (Silvex)	21.2	5.00	"	40.0		53.1	10-139				
2,4-D	20.5	5.00	"	40.0		51.2	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*78.8*		*"*	*125*		*63.0*	*30-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21742 - EPA 3015A											
Blank (BB21742-BLK1) Blank											Prepared & Analyzed: 02/10/2022
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BB21742-BS1) LCS											Prepared & Analyzed: 02/10/2022
Aluminum	1.93		ug/mL	2.00		96.5	80-120				
Barium	2.02		"	2.00		101	80-120				
Calcium	0.968		"	1.00		96.8	80-120				
Chromium	0.197		"	0.200		98.6	80-120				
Cobalt	0.507		"	0.500		101	80-120				
Copper	0.259		"	0.250		104	80-120				
Iron	1.20		"	1.00		120	80-120				
Lead	0.523		"	0.500		105	80-120				
Magnesium	0.959		"	1.00		95.9	80-120				
Manganese	0.505		"	0.500		101	80-120				
Nickel	0.493		"	0.500		98.6	80-120				
Potassium	0.871		"	1.00		87.1	80-120				
Silver	0.0506		"	0.0500		101	80-120				
Sodium	1.00		"	1.00		100	80-120				
Vanadium	0.493		"	0.500		98.6	80-120				
Zinc	0.470		"	0.500		94.1	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21742 - EPA 3015A											
Duplicate (BB21742-DUP1) Duplicate	*Source sample: 22B0396-01 (Duplicate)								Prepared & Analyzed: 02/10/2022		
Aluminum	6.01	0.0556	mg/L		5.52				8.52	20	
Barium	0.326	0.0278	"		0.312				4.31	20	
Calcium	149	0.0556	"		146				1.80	20	
Chromium	0.0157	0.00556	"		0.0168				6.66	20	
Cobalt	0.00612	0.00444	"		0.00536				13.3	20	
Copper	0.211	0.0222	"		0.204				3.41	20	
Iron	19.8	0.278	"		19.9				0.686	20	
Lead	0.268	0.00556	"		0.262				2.03	20	
Magnesium	15.8	0.0556	"		15.5				1.82	20	
Manganese	0.903	0.00556	"		0.868				3.99	20	
Nickel	ND	0.0111	"		ND					20	
Potassium	27.4	0.0556	"		27.0				1.64	20	
Silver	ND	0.00556	"		ND					20	
Sodium	172	0.556	"		170				1.53	20	
Vanadium	0.0191	0.0111	"		0.0200				4.79	20	
Zinc	0.573	0.0278	"		0.531				7.48	20	
Matrix Spike (BB21742-MS1) Matrix Spike	*Source sample: 22B0396-01 (Matrix Spike)								Prepared & Analyzed: 02/10/2022		
Aluminum	7.88	0.0556	mg/L	2.22	5.52	106	75-125				
Barium	2.91	0.0278	"	2.22	0.312	117	75-125				
Calcium	145	0.0556	"	1.11	146	NR	75-125	Low Bias			
Chromium	0.272	0.00556	"	0.222	0.0168	115	75-125				
Cobalt	0.654	0.00444	"	0.556	0.00536	117	75-125				
Copper	0.567	0.0222	"	0.278	0.204	131	75-125	High Bias			
Iron	20.2	0.278	"	1.11	19.9	29.6	75-125	Low Bias			
Lead	0.935	0.00556	"	0.556	0.262	121	75-125				
Magnesium	16.2	0.0556	"	1.11	15.5	57.5	75-125	Low Bias			
Manganese	1.61	0.00556	"	0.556	0.868	134	75-125	High Bias			
Nickel	0.655	0.0111	"	0.556	ND	118	75-125				
Potassium	27.7	0.0556	"	1.11	27.0	64.9	75-125	Low Bias			
Silver	0.0621	0.00556	"	0.0556	ND	112	75-125				
Sodium	167	0.556	"	1.11	170	NR	75-125	Low Bias			
Vanadium	0.664	0.0111	"	0.556	0.0200	116	75-125				
Zinc	1.22	0.0278	"	0.556	0.531	124	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21742 - EPA 3015A											
Post Spike (BB21742-PS1) Post Spike	*Source sample: 22B0396-01 (Post Spike)							Prepared & Analyzed: 02/10/2022			
Aluminum	7.32		ug/mL	2.00	4.97	118	75-125				
Barium	2.62		"	2.00	0.281	117	75-125				
Calcium	130		"	1.00	131	NR	75-125	Low Bias			
Chromium	0.244		"	0.200	0.0151	114	75-125				
Cobalt	0.588		"	0.500	0.00482	117	75-125				
Copper	0.513		"	0.250	0.183	132	75-125	High Bias			
Iron	19.0		"	1.00	17.9	106	75-125				
Lead	0.866		"	0.500	0.236	126	75-125	High Bias			
Magnesium	15.0		"	1.00	14.0	98.7	75-125				
Manganese	1.43		"	0.500	0.781	130	75-125	High Bias			
Nickel	0.609		"	0.500	-0.00412	122	75-125				
Potassium	25.1		"	1.00	24.3	84.4	75-125				
Silver	0.0433		"	0.0500	0.000248	86.2	75-125				
Sodium	150		"	1.00	153	NR	75-125	Low Bias			
Vanadium	0.600		"	0.500	0.0180	116	75-125				
Zinc	1.10		"	0.500	0.478	125	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21916 - EPA 3015A											
Blank (BB21916-BLK1) Blank								Prepared: 02/14/2022 Analyzed: 02/15/2022			
Antimony	ND	0.00111	mg/L								
Arsenic	ND	0.00111	"								
Beryllium	ND	0.000333	"								
Cadmium	ND	0.000556	"								
Selenium	ND	0.00111	"								
Thallium	ND	0.00111	"								
LCS (BB21916-BS1) LCS								Prepared: 02/14/2022 Analyzed: 02/15/2022			
Antimony	45.2		ug/L	50.0		90.4	80-120				
Arsenic	46.7		"	50.0		93.5	80-120				
Beryllium	45.0		"	50.0		90.1	80-120				
Cadmium	46.8		"	50.0		93.6	80-120				
Selenium	38.9		"	50.0		77.7	80-120	Low Bias			
Thallium	47.1		"	50.0		94.2	80-120				
Duplicate (BB21916-DUP1) Duplicate	*Source sample: 22B0396-01 (Duplicate)							Prepared: 02/14/2022 Analyzed: 02/15/2022			
Antimony	ND	0.00111	mg/L		ND					20	
Arsenic	0.00145	0.00111	"		0.00788				138	20	Non-dir.
Beryllium	ND	0.000333	"		ND					20	
Cadmium	ND	0.000556	"		0.00133					20	
Selenium	0.0610	0.00111	"		0.00870				150	20	Non-dir.
Thallium	ND	0.00111	"		ND					20	
Matrix Spike (BB21916-MS1) Matrix Spike	*Source sample: 22B0396-01 (Matrix Spike)							Prepared: 02/14/2022 Analyzed: 02/15/2022			
Antimony	47.0		ug/L	50.0	0.376	93.2	75-125				
Arsenic	58.5		"	50.0	7.09	103	75-125				
Beryllium	23.4		"	50.0	0.088	46.6	75-125	Low Bias			
Cadmium	43.8		"	50.0	1.20	85.2	75-125				
Selenium	51.0		"	50.0	7.83	86.4	75-125				
Thallium	40.6		"	50.0	0.024	81.2	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21696 - EPA SW846-7470A											
Blank (BB21696-BLK1) Blank								Prepared & Analyzed: 02/09/2022			
Mercury	ND	0.0002	mg/L								
LCS (BB21696-BS1) LCS								Prepared & Analyzed: 02/09/2022			
Mercury	0.0021055	0.0002	mg/L	0.00200		105	80-120				
LCS (BB21696-BS2) LCS								Prepared & Analyzed: 02/09/2022			
Mercury	0.0020078	0.0002	mg/L	0.00200		100	80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21622 - Analysis Preparation												
Blank (BB21622-BLK1)	Blank								Prepared & Analyzed: 02/08/2022			
Chromium, Hexavalent		ND	0.0100	mg/L								
LCS (BB21622-BS1)	LCS								Prepared & Analyzed: 02/08/2022			
Chromium, Hexavalent		0.524	0.0100	mg/L	0.500		105	80-120				
Duplicate (BB21622-DUP1)	Duplicate	*Source sample: 22B0319-04 (Duplicate)							Prepared & Analyzed: 02/08/2022			
Chromium, Hexavalent		ND	0.0100	mg/L		ND					20	
Matrix Spike (BB21622-MS1)	Matrix Spike	*Source sample: 22B0319-04 (Matrix Spike)							Prepared & Analyzed: 02/08/2022			
Chromium, Hexavalent		0.511	0.0100	mg/L	0.500	ND	102	75-125				
Batch BB21760 - Analysis Preparation												
Blank (BB21760-BLK1)	Blank								Prepared & Analyzed: 02/10/2022			
Cyanide, total		ND	0.0100	mg/L								
LCS (BB21760-BS1)	LCS								Prepared & Analyzed: 02/10/2022			
Cyanide, total		0.216	0.0100	mg/L	0.200		108	80-120				
Duplicate (BB21760-DUP1)	Duplicate	*Source sample: 22B0379-01 (Duplicate)							Prepared & Analyzed: 02/10/2022			
Cyanide, total		0.0511	0.0100	mg/L		0.0479				6.39	15	
Matrix Spike (BB21760-MS1)	Matrix Spike	*Source sample: 22B0379-01 (Matrix Spike)							Prepared & Analyzed: 02/10/2022			
Cyanide, total		0.291	0.0100	mg/L	0.200	0.0479	122	79-105	High Bias			

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
22B0357-02	039_TB-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22B0357-03	040_LMW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22B0357-04	041_LMW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
HT-01R	This flag indicates that the sample was initially analyzed within recommended hold time and that a re-run was performed outside of the hold time.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Cal-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22B0357

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | 800-306-9675

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Langan	Company:	Company:	100964201	RUSH - Next Day
Address: 300 Kimball Drive Parsippany, NJ 07054	Address: SAME	Address: SAME	YOUR Project Name: 213 Meadow Street	RUSH - Two Day
Phone.: 973 560 4900	Phone.:	Phone.:		RUSH - Three Day
Contact:	Contact: Molly Mattern	Contact:		RUSH - Four Day
E-mail: mmattern@langan.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Morgan McBride

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | NJDEP SRP HazSite
NJDKQP | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
038-EB-5	AQ	2/8/22 0900	1,4-dioxane, PFAS	M
039-TB-4	↓	—	VOCs	M
040-LMW-4	GW	2/8/22 0950	VOCs, SVOCs, pesticides, PCBs, herbicides, total TAL metals, cyanide, trivalent and hexavalent chromium, 1,4-dioxane, PFAS	M
041-LMW-3	GW	2/8/22 1500	←	M

Comments: *5-day TAT, except PFAS with Standard TAT

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Morgan McBride/Langan	2/8/22 1545	Andrew S. York	2/8/22 1545	Andrew S. York	2/8/22 1759
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
Nael N York Labs	2/8/22 1759	Nael N York Labs	2/8/22 2017		
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				KBlock	2/8/22 2017 / 3.7 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NJ)
300 Kimball Drive, 4th Floor
Parsipanny NJ, 07054-2172
Attention: Molly Mattern

Report Date: 02/15/2022
Client Project ID: 100964201
York Project (SDG) No.: 22B0358

Report Date: 02/15/2022
Client Project ID: 100964201
York Project (SDG) No.: 22B0358

Langan Engineering & Environmental Services (NJ)
300 Kimball Drive, 4th Floor
Parsipanny NJ, 07054-2172
Attention: Molly Mattern

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 09, 2022 and listed below. The project was identified as your project: **100964201**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22B0358-01	042_LSV-4	Soil Vapor	02/08/2022	02/09/2022
22B0358-02	043_DUP-3	Soil Vapor	02/08/2022	02/09/2022
22B0358-03	045_LSV-2	Soil Vapor	02/08/2022	02/09/2022
22B0358-04	046_LSV-3	Soil Vapor	02/08/2022	02/09/2022

General Notes for York Project (SDG) No.: 22B0358

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By  **Date:** 02/15/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 042_LSV-4 **York Sample ID:** 22B0358-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 11:00 am	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	3.55	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	2.82	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	3.55	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	3.96	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	2.82	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	2.09	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	1.03	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	3.84	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**2.54**		ug/m³	2.54	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	3.97	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	3.11	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	2.09	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	2.39	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	3.62	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	2.54	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	3.43	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	3.11	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	2.39	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	3.11	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	3.73	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**8.08**		ug/m³	1.53	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: 042_LSV-4 **York Sample ID:** 22B0358-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 11:00 am	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m³	4.24	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	8.09	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	2.12	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**33.3**		ug/m³	2.46	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	1.12	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	Benzene	ND		ug/m³	1.65	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	2.68	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	3.46	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	5.35	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	2.01	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	**Carbon disulfide**	**6.28**		ug/m³	1.61	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.813	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	2.38	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	1.36	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ug/m³	2.53	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	Chloromethane	ND		ug/m³	1.07	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	1.03	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	2.35	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	**Cyclohexane**	**9.26**		ug/m³	1.78	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	4.41	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**36.8**		ug/m³	2.56	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* Ethyl acetate	ND		ug/m³	3.73	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:			

Sample Information

Client Sample ID: 042_LSV-4 **York Sample ID:** 22B0358-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 11:00 am	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	**Ethyl Benzene**	**3.59**		ug/m³	2.25	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
87-68-3	Hexachlorobutadiene	ND		ug/m³	5.52	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	Isopropanol	ND		ug/m³	2.54	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	2.12	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**7.09**		ug/m³	1.86	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	3.59	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**400**		ug/m³	2.12	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**707**		ug/m³	1.82	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	o-Xylene	ND		ug/m³	2.25	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	p- & m- Xylenes	ND		ug/m³	4.49	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	* p-Ethyltoluene	ND		ug/m³	2.54	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.890	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:			
100-42-5	Styrene	ND		ug/m³	2.20	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	ND		ug/m³	3.51	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	3.05	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:			
108-88-3	Toluene	ND		ug/m³	1.95	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	2.05	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	2.35	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.695	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	2.91	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	1.82	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	2.26	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: 042_LSV-4 **York Sample ID:** 22B0358-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 11:00 am	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.661	5.172	EPA TO-15	02/14/2022 12:00	02/14/2022 22:39	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: 043_DUP-3 **York Sample ID:** 22B0358-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 11:05 am	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	3.68	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	2.93	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	3.68	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	4.11	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	2.93	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	**1,1-Dichloroethane**	**21.7**		ug/m³	2.17	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	1.06	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	3.98	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	2.64	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	4.12	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	3.22	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	2.17	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	2.48	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	3.75	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	2.64	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	3.56	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	3.22	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	2.48	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	3.22	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	3.87	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**7.75**		ug/m³	1.58	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	4.39	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:			

Sample Information

Client Sample ID: 043_DUP-3 **York Sample ID:** 22B0358-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 11:05 am	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	8.39	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	2.20	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**32.2**		ug/m³	2.55	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	1.16	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	Benzene	ND		ug/m³	1.71	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	2.78	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	3.59	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	5.54	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	2.08	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	**Carbon disulfide**	**6.51**		ug/m³	1.67	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.844	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	2.47	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	1.42	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ug/m³	2.62	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	Chloromethane	ND		ug/m³	1.11	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	1.06	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	2.43	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	**Cyclohexane**	**8.49**		ug/m³	1.85	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	4.57	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	Dichlorodifluoromethane	ND		ug/m³	2.65	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* Ethyl acetate	ND		ug/m³	3.87	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:			
100-41-4	**Ethyl Benzene**	**3.26**		ug/m³	2.33	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: 043_DUP-3 **York Sample ID:** 22B0358-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 11:05 am	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	5.72	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	Isopropanol	ND		ug/m³	2.64	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	2.20	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	1.93	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	**Methylene chloride**	**4.47**		ug/m³	3.73	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**372**		ug/m³	2.20	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**653**		ug/m³	1.89	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	o-Xylene	ND		ug/m³	2.33	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	p- & m- Xylenes	ND		ug/m³	4.66	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	* p-Ethyltoluene	ND		ug/m³	2.64	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.923	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:			
100-42-5	Styrene	ND		ug/m³	2.28	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	ND		ug/m³	3.64	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	3.16	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:			
108-88-3	**Toluene**	**2.43**		ug/m³	2.02	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	2.13	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	2.43	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.721	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	3.01	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	1.89	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	2.35	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.686	5.364	EPA TO-15	02/14/2022 12:00	02/15/2022 07:16	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: **043_DUP-3** **York Sample ID:** **22B0358-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 11:05 am	02/09/2022

Sample Information

Client Sample ID: 045_LSV-2 **York Sample ID:** 22B0358-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 12:35 pm	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	3.75	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	2.98	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	3.75	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	4.18	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	2.98	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	2.21	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	1.08	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	4.05	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**8.31**		ug/m³	2.68	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	4.19	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	3.28	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	2.21	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	2.52	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	3.81	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**4.29**		ug/m³	2.68	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	3.62	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	3.28	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	2.52	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	3.28	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	3.93	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**5.15**		ug/m³	1.61	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	4.47	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:			

Sample Information

Client Sample ID: 045_LSV-2 **York Sample ID:** 22B0358-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 12:35 pm	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	8.54	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	2.24	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**12.7**		ug/m³	2.59	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	1.18	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	Benzene	ND		ug/m³	1.74	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	2.82	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	3.66	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	5.64	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	2.12	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	**Carbon disulfide**	**31.3**		ug/m³	1.70	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.858	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	2.51	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	1.44	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ug/m³	2.66	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	Chloromethane	ND		ug/m³	1.13	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	1.08	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	2.48	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	**Cyclohexane**	**468**		ug/m³	1.88	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	4.65	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	Dichlorodifluoromethane	ND		ug/m³	2.70	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* Ethyl acetate	ND		ug/m³	3.93	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:			
100-41-4	**Ethyl Benzene**	**6.16**		ug/m³	2.37	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: 045_LSV-2 **York Sample ID:** 22B0358-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 12:35 pm	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	5.82	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	Isopropanol	ND		ug/m³	2.68	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	2.23	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	1.97	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	3.79	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	n-Heptane	ND		ug/m³	2.24	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**74.2**		ug/m³	1.92	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**4.50**		ug/m³	2.37	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**7.58**		ug/m³	4.74	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**6.44**		ug/m³	2.68	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.939	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:			
100-42-5	Styrene	ND		ug/m³	2.32	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	ND		ug/m³	3.70	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	3.22	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:			
108-88-3	**Toluene**	**5.96**		ug/m³	2.06	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	2.16	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	2.48	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.733	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	3.07	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	1.92	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	2.39	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.697	5.456	EPA TO-15	02/14/2022 12:00	02/15/2022 00:15	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: **045_LSV-2** **York Sample ID:** **22B0358-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 12:35 pm	02/09/2022

Sample Information

Client Sample ID: 046_LSV-3 **York Sample ID:** 22B0358-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 1:00 pm	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND	IS-HI	ug/m³	4.71	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND	IS-HI	ug/m³	3.75	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-HI	ug/m³	4.71	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-HI	ug/m³	5.26	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND	IS-HI	ug/m³	3.75	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND	IS-HI	ug/m³	2.78	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND	IS-HI	ug/m³	1.36	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND	IS-HI	ug/m³	5.09	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**5.06**	IS-HI	ug/m³	3.37	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND	IS-HI	ug/m³	5.27	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	**1,2-Dichlorobenzene**	**6.60**	IS-HI	ug/m³	4.13	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND	IS-HI	ug/m³	2.78	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND	IS-HI	ug/m³	3.17	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND	IS-HI	ug/m³	4.80	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND	IS-HI	ug/m³	3.37	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND	IS-HI	ug/m³	4.56	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND	IS-HI	ug/m³	4.13	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND	IS-HI	ug/m³	3.17	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:			
106-46-7	**1,4-Dichlorobenzene**	**28.9**	IS-HI	ug/m³	4.13	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND	IS-HI	ug/m³	4.95	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**2.63**	IS-HI	ug/m³	2.02	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND	IS-HI	ug/m³	5.62	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:			

Sample Information

Client Sample ID: 046_LSV-3 **York Sample ID:** 22B0358-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 1:00 pm	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND	IS-HI	ug/m³	10.7	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	4-Methyl-2-pentanone	ND	IS-HI	ug/m³	2.81	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**12.7**	IS-HI	ug/m³	3.26	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND	IS-HI	ug/m³	1.49	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**3.07**	IS-HI	ug/m³	2.19	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND	IS-HI	ug/m³	3.55	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND	IS-HI	ug/m³	4.60	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND	IS-HI	ug/m³	7.10	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND	IS-HI	ug/m³	2.67	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	**Carbon disulfide**	**2.35**	IS-HI	ug/m³	2.14	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	Carbon tetrachloride	ND	IS-HI	ug/m³	1.08	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND	IS-HI	ug/m³	3.16	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND	IS-HI	ug/m³	1.81	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND	IS-HI	ug/m³	3.35	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	Chloromethane	ND	IS-HI	ug/m³	1.42	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND	IS-HI	ug/m³	1.36	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND	IS-HI	ug/m³	3.12	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	**Cyclohexane**	**244**	IS-HI	ug/m³	2.36	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND	IS-HI	ug/m³	5.85	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	Dichlorodifluoromethane	ND	IS-HI	ug/m³	3.39	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* Ethyl acetate	ND	IS-HI	ug/m³	4.95	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:			
100-41-4	**Ethyl Benzene**	**9.24**	IS-HI	ug/m³	2.98	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: 046_LSV-3 **York Sample ID:** 22B0358-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 1:00 pm	02/09/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND	IS-HI	ug/m³	7.32	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**12.8**	IS-HI	ug/m³	3.37	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND	IS-HI	ug/m³	2.81	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-HI	ug/m³	2.48	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	**Methylene chloride**	**6.20**	IS-HI	ug/m³	4.77	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**81.3**	IS-HI	ug/m³	2.81	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**260**	IS-HI	ug/m³	2.42	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**3.28**	IS-HI	ug/m³	2.98	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**8.64**	IS-HI	ug/m³	5.96	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	* p-Ethyltoluene	ND	IS-HI	ug/m³	3.37	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:			
115-07-1	* Propylene	ND	IS-HI	ug/m³	1.18	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:			
100-42-5	Styrene	ND	IS-HI	ug/m³	2.92	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	ND	IS-HI	ug/m³	4.66	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND	IS-HI	ug/m³	4.05	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:			
108-88-3	**Toluene**	**8.02**	IS-HI	ug/m³	2.59	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-HI	ug/m³	2.72	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND	IS-HI	ug/m³	3.12	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND	IS-HI	ug/m³	0.922	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	Trichlorofluoromethane (Freon 11)	ND	IS-HI	ug/m³	3.86	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND	IS-HI	ug/m³	2.42	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND	IS-HI	ug/m³	3.00	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND	IS-HI	ug/m³	0.877	6.865	EPA TO-15	02/14/2022 12:00	02/15/2022 01:03	AC
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: **046_LSV-3** **York Sample ID:** **22B0358-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0358	100964201	Soil Vapor	February 8, 2022 1:00 pm	02/09/2022

Analytical Batch Summary

Batch ID: BB21893 **Preparation Method:** EPA TO15 PREP **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
22B0358-01	042_LSV-4	02/14/22
22B0358-02	043_DUP-3	02/14/22
22B0358-03	045_LSV-2	02/14/22
22B0358-04	046_LSV-3	02/14/22
BB21893-BLK1	Blank	02/14/22
BB21893-BS1	LCS	02/14/22

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21893 - EPA TO15 PREP											
Blank (BB21893-BLK1) Blank									Prepared & Analyzed: 02/14/2022		
1,1,1,2-Tetrachloroethane	ND	0.687	ug/m³								
1,1,1-Trichloroethane	ND	0.546	"								
1,1,2,2-Tetrachloroethane	ND	0.687	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.766	"								
1,1,2-Trichloroethane	ND	0.546	"								
1,1-Dichloroethane	ND	0.405	"								
1,1-Dichloroethylene	ND	0.198	"								
1,2,4-Trichlorobenzene	ND	0.742	"								
1,2,4-Trimethylbenzene	ND	0.492	"								
1,2-Dibromoethane	ND	0.768	"								
1,2-Dichlorobenzene	ND	0.601	"								
1,2-Dichloroethane	ND	0.405	"								
1,2-Dichloropropane	ND	0.462	"								
1,2-Dichlorotetrafluoroethane	ND	0.699	"								
1,3,5-Trimethylbenzene	ND	0.492	"								
1,3-Butadiene	ND	0.664	"								
1,3-Dichlorobenzene	ND	0.601	"								
1,3-Dichloropropane	ND	0.462	"								
1,4-Dichlorobenzene	ND	0.601	"								
1,4-Dioxane	ND	0.721	"								
2-Butanone	ND	0.295	"								
2-Hexanone	ND	0.819	"								
3-Chloropropene	ND	1.57	"								
4-Methyl-2-pentanone	ND	0.410	"								
Acetone	ND	0.475	"								
Acrylonitrile	ND	0.217	"								
Benzene	ND	0.319	"								
Benzyl chloride	ND	0.518	"								
Bromodichloromethane	ND	0.670	"								
Bromoform	ND	1.03	"								
Bromomethane	ND	0.388	"								
Carbon disulfide	ND	0.311	"								
Carbon tetrachloride	ND	0.157	"								
Chlorobenzene	ND	0.460	"								
Chloroethane	ND	0.264	"								
Chloroform	ND	0.488	"								
Chloromethane	ND	0.207	"								
cis-1,2-Dichloroethylene	ND	0.198	"								
cis-1,3-Dichloropropylene	ND	0.454	"								
Cyclohexane	ND	0.344	"								
Dibromochloromethane	ND	0.852	"								
Dichlorodifluoromethane	ND	0.495	"								
Ethyl acetate	ND	0.721	"								
Ethyl Benzene	ND	0.434	"								
Hexachlorobutadiene	ND	1.07	"								
Isopropanol	ND	0.492	"								
Methyl Methacrylate	ND	0.409	"								
Methyl tert-butyl ether (MTBE)	ND	0.361	"								
Methylene chloride	ND	0.695	"								
n-Heptane	ND	0.410	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21893 - EPA TO15 PREP											
Blank (BB21893-BLK1) Blank									Prepared & Analyzed: 02/14/2022		
n-Hexane	ND	0.352	ug/m³								
o-Xylene	ND	0.434	"								
p- & m- Xylenes	ND	0.868	"								
p-Ethyltoluene	ND	0.492	"								
Propylene	ND	0.172	"								
Styrene	ND	0.426	"								
Tetrachloroethylene	ND	0.678	"								
Tetrahydrofuran	ND	0.590	"								
Toluene	ND	0.377	"								
trans-1,2-Dichloroethylene	ND	0.396	"								
trans-1,3-Dichloropropylene	ND	0.454	"								
Trichloroethylene	ND	0.134	"								
Trichlorofluoromethane (Freon 11)	ND	0.562	"								
Vinyl acetate	ND	0.352	"								
Vinyl bromide	ND	0.437	"								
Vinyl Chloride	ND	0.128	"								
LCS (BB21893-BS1) LCS									Prepared & Analyzed: 02/14/2022		
1,1,1,2-Tetrachloroethane	9.81		ppbv	10.0		98.1	70-130				
1,1,1-Trichloroethane	10.6		"	10.0		106	70-130				
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2		"	10.0		102	70-130				
1,1,2-Trichloroethane	11.0		"	10.0		110	70-130				
1,1-Dichloroethane	10.3		"	10.0		103	70-130				
1,1-Dichloroethylene	11.8		"	10.0		118	70-130				
1,2,4-Trichlorobenzene	10.2		"	10.0		102	70-130				
1,2,4-Trimethylbenzene	10.4		"	10.0		104	70-130				
1,2-Dibromoethane	10.0		"	10.0		100	70-130				
1,2-Dichlorobenzene	10.4		"	10.0		104	70-130				
1,2-Dichloroethane	10.5		"	10.0		105	70-130				
1,2-Dichloropropane	9.75		"	10.0		97.5	70-130				
1,2-Dichlorotetrafluoroethane	9.31		"	10.0		93.1	70-130				
1,3,5-Trimethylbenzene	10.1		"	10.0		101	70-130				
1,3-Butadiene	9.85		"	10.0		98.5	70-130				
1,3-Dichlorobenzene	10.4		"	10.0		104	70-130				
1,3-Dichloropropane	10.0		"	10.0		100	70-130				
1,4-Dichlorobenzene	10.2		"	10.0		102	70-130				
1,4-Dioxane	9.94		"	10.0		99.4	70-130				
2-Butanone	10.1		"	10.0		101	70-130				
2-Hexanone	10.8		"	10.0		108	70-130				
3-Chloropropene	11.0		"	10.0		110	70-130				
4-Methyl-2-pentanone	10.4		"	10.0		104	70-130				
Acetone	9.09		"	10.0		90.9	70-130				
Acrylonitrile	10.6		"	10.0		106	70-130				
Benzene	9.63		"	10.0		96.3	70-130				
Benzyl chloride	9.50		"	10.0		95.0	70-130				
Bromodichloromethane	10.5		"	10.0		105	70-130				
Bromoform	10.2		"	10.0		102	70-130				
Bromomethane	10.0		"	10.0		100	70-130				
Carbon disulfide	10.2		"	10.0		102	70-130				
Carbon tetrachloride	12.8		"	10.0		128	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21893 - EPA TO15 PREP											
LCS (BB21893-BS1) LCS							Prepared & Analyzed: 02/14/2022				
Chlorobenzene	9.48		ppbv	10.0		94.8	70-130				
Chloroethane	10.6		"	10.0		106	70-130				
Chloroform	10.5		"	10.0		105	70-130				
Chloromethane	8.84		"	10.0		88.4	70-130				
cis-1,2-Dichloroethylene	11.7		"	10.0		117	70-130				
cis-1,3-Dichloropropylene	10.8		"	10.0		108	70-130				
Cyclohexane	10.5		"	10.0		105	70-130				
Dibromochloromethane	12.0		"	10.0		120	70-130				
Dichlorodifluoromethane	10.5		"	10.0		105	70-130				
Ethyl acetate	10.2		"	10.0		102	70-130				
Ethyl Benzene	9.68		"	10.0		96.8	70-130				
Hexachlorobutadiene	10.3		"	10.0		103	70-130				
Isopropanol	10.7		"	10.0		107	70-130				
Methyl Methacrylate	11.2		"	10.0		112	70-130				
Methyl tert-butyl ether (MTBE)	10.6		"	10.0		106	70-130				
Methylene chloride	9.95		"	10.0		99.5	70-130				
n-Heptane	10.5		"	10.0		105	70-130				
n-Hexane	10.2		"	10.0		102	70-130				
o-Xylene	10.1		"	10.0		101	70-130				
p- & m- Xylenes	20.4		"	20.0		102	70-130				
p-Ethyltoluene	10.4		"	10.0		104	70-130				
Propylene	10.5		"	10.0		105	70-130				
Styrene	8.39		"	10.0		83.9	70-130				
Tetrachloroethylene	11.6		"	10.0		116	70-130				
Tetrahydrofuran	10.5		"	10.0		105	70-130				
Toluene	9.86		"	10.0		98.6	70-130				
trans-1,2-Dichloroethylene	10.5		"	10.0		105	70-130				
trans-1,3-Dichloropropylene	10.7		"	10.0		107	70-130				
Trichloroethylene	12.3		"	10.0		123	70-130				
Trichlorofluoromethane (Freon 11)	10.4		"	10.0		104	70-130				
Vinyl acetate	10.1		"	10.0		101	70-130				
Vinyl bromide	11.4		"	10.0		114	70-130				
Vinyl Chloride	9.99		"	10.0		99.9	70-130				

120 RESEARCH DRIVE
STRATFORD, CT 06615
www.YORKLAB.com
(203) 325-1371
132-02 89th AVENUE
RICHMOND HILL, NY 11418
FAX (203) 357-0166
ClientServices@yorklab.com

Sample and Data Qualifiers Relating to This Work Order

TO-VAC	The final vacuum in the canister was less than -2 inches Hg vacuum. The time integrated sampling may be affected and not reflect proper sampling over the time period. The data user should take note.
IS-HI	The internal std associated with this target compound did not meet acceptance criteria (area >200% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22B0358

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Langan	Company:	Company:	100964201	RUSH - Next Day
Address: 300 Kimball Drive Parsippany, NJ 07054	Address: SAME	Address: SAME	YOUR Project Name: 213 Meadow Street	RUSH - Two Day
Phone.: 973 560 4400	Phone.:	Phone.:		RUSH - Three Day
Contact: Molly Mattern	Contact:	Contact:		RUSH - Four Day
E-mail: mmattern@langan.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Morgan McBride

Air Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
AI - Indoor Ambient Air	New York X	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
AO - Outdoor Amb. Air	New Jersey	QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
AE - Vapor Extraction Well/ Process Gas/Effluent	Connecticut	NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS	
AS - Soil Vapor/Sub-Slab	Pennsylvania	NY ASP B Package	NJDKQP	NJDEP SRP HazSite	
	Other	Other:			

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
042 - LSV - 4	2/8/22 1100	AS	-30	-4	18302	6879	TO-15 VOCs
043 - DUP - 3	1105		-30	-3	28857	7362	
~~044 - LSV - 1~~	~~1210~~		~~-30~~	-	~~37799~~	~~12189~~	
045 - LSV - 2	1235		-30	-4	28317	13568	
046 - LSV - 3	1300		-29	-3	10042	7423	

Comments:

Detection Limits Required

≤ 1 ug/m³ ___ NYSDEC V1 Limits ___

Routine Survey ___ Other ___

Sampling Media

6 Liter Canister X

Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Morgan McBride/Langan	2/8/22 1545	Andrew S. York	2/8/22 1545	Andrew S. York	2/8/22
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				Alexa M Schenk	2/9/22 1130

Technical Report

prepared for:

Langan Engineering & Environmental Services (NJ)
300 Kimball Drive, 4th Floor
Parsipanny NJ, 07054-2172
Attention: Molly Mattern

Report Date: 02/16/2022
Client Project ID: 100964201
York Project (SDG) No.: 22B0429

Report Date: 02/16/2022
Client Project ID: 100964201
York Project (SDG) No.: 22B0429

Langan Engineering & Environmental Services (NJ)
300 Kimball Drive, 4th Floor
Parsipanny NJ, 07054-2172
Attention: Molly Mattern

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 11, 2022 and listed below. The project was identified as your project: **100964201**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22B0429-01	044_LSV-1	Soil Vapor	02/08/2022	02/11/2022

General Notes for York Project (SDG) No.: 22B0429

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By  **Date:** 02/16/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 044_LSV-1 **York Sample ID:** 22B0429-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0429	100964201	Soil Vapor	February 8, 2022 2:50 pm	02/11/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.01	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.806	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.01	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.13	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.806	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.598	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.293	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.10	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.726	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.13	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.888	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.598	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.683	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.03	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.726	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.980	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.888	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.683	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.888	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.06	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**1.48**		ug/m³	0.436	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: 044_LSV-1 **York Sample ID:** 22B0429-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0429	100964201	Soil Vapor	February 8, 2022 2:50 pm	02/11/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m³	1.21	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	2.31	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.605	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**40.0**		ug/m³	0.702	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.321	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**2.12**		ug/m³	0.472	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.765	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	0.989	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	1.53	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.574	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	Carbon disulfide	ND		ug/m³	0.460	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.279**		ug/m³	0.232	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.680	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.390	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ug/m³	0.721	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	**Chloromethane**	**1.16**		ug/m³	0.305	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.293	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.670	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	**Cyclohexane**	**0.508**		ug/m³	0.508	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	1.26	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**2.19**		ug/m³	0.730	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	*** Ethyl acetate**	**1.17**		ug/m³	1.06	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:			

Sample Information

Client Sample ID: 044_LSV-1 **York Sample ID:** 22B0429-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0429	100964201	Soil Vapor	February 8, 2022 2:50 pm	02/11/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m³	0.641	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.58	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**4.03**		ug/m³	0.726	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	**Methyl Methacrylate**	**0.726**		ug/m³	0.605	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.533	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	**Methylene chloride**	**4.67**		ug/m³	1.03	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**0.848**		ug/m³	0.605	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**1.61**		ug/m³	0.521	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	o-Xylene	ND		ug/m³	0.641	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**1.47**		ug/m³	1.28	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.726	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.254	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.629	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	Tetrachloroethylene	ND		ug/m³	1.00	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.871	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:			
108-88-3	**Toluene**	**4.29**		ug/m³	0.557	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.586	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.670	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	**Trichloroethylene**	**0.397**		ug/m³	0.198	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.16**		ug/m³	0.830	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.520	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.646	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: 044_LSV-1 **York Sample ID:** 22B0429-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22B0429	100964201	Soil Vapor	February 8, 2022 2:50 pm	02/11/2022

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.189	1.477	EPA TO-15	02/15/2022 03:00	02/15/2022 19:44	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Analytical Batch Summary

Batch ID: BB21894 **Preparation Method:** EPA TO15 PREP **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
22B0429-01	044_LSV-1	02/15/22
BB21894-BLK1	Blank	02/15/22
BB21894-BS1	LCS	02/15/22

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21894 - EPA TO15 PREP											
Blank (BB21894-BLK1) Blank									Prepared & Analyzed: 02/15/2022		
1,1,1,2-Tetrachloroethane	ND	0.687	ug/m³								
1,1,1-Trichloroethane	ND	0.546	"								
1,1,2,2-Tetrachloroethane	ND	0.687	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.766	"								
1,1,2-Trichloroethane	ND	0.546	"								
1,1-Dichloroethane	ND	0.405	"								
1,1-Dichloroethylene	ND	0.198	"								
1,2,4-Trichlorobenzene	ND	0.742	"								
1,2,4-Trimethylbenzene	ND	0.492	"								
1,2-Dibromoethane	ND	0.768	"								
1,2-Dichlorobenzene	ND	0.601	"								
1,2-Dichloroethane	ND	0.405	"								
1,2-Dichloropropane	ND	0.462	"								
1,2-Dichlorotetrafluoroethane	ND	0.699	"								
1,3,5-Trimethylbenzene	ND	0.492	"								
1,3-Butadiene	ND	0.664	"								
1,3-Dichlorobenzene	ND	0.601	"								
1,3-Dichloropropane	ND	0.462	"								
1,4-Dichlorobenzene	ND	0.601	"								
1,4-Dioxane	ND	0.721	"								
2-Butanone	ND	0.295	"								
2-Hexanone	ND	0.819	"								
3-Chloropropene	ND	1.57	"								
4-Methyl-2-pentanone	ND	0.410	"								
Acetone	ND	0.475	"								
Acrylonitrile	ND	0.217	"								
Benzene	ND	0.319	"								
Benzyl chloride	ND	0.518	"								
Bromodichloromethane	ND	0.670	"								
Bromoform	ND	1.03	"								
Bromomethane	ND	0.388	"								
Carbon disulfide	ND	0.311	"								
Carbon tetrachloride	ND	0.157	"								
Chlorobenzene	ND	0.460	"								
Chloroethane	ND	0.264	"								
Chloroform	ND	0.488	"								
Chloromethane	ND	0.207	"								
cis-1,2-Dichloroethylene	ND	0.198	"								
cis-1,3-Dichloropropylene	ND	0.454	"								
Cyclohexane	ND	0.344	"								
Dibromochloromethane	ND	0.852	"								
Dichlorodifluoromethane	ND	0.495	"								
Ethyl acetate	ND	0.721	"								
Ethyl Benzene	ND	0.434	"								
Hexachlorobutadiene	ND	1.07	"								
Isopropanol	ND	0.492	"								
Methyl Methacrylate	ND	0.409	"								
Methyl tert-butyl ether (MTBE)	ND	0.361	"								
Methylene chloride	ND	0.695	"								
n-Heptane	ND	0.410	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21894 - EPA TO15 PREP											
Blank (BB21894-BLK1) Blank									Prepared & Analyzed: 02/15/2022		
n-Hexane	ND	0.352	ug/m³								
o-Xylene	ND	0.434	"								
p- & m- Xylenes	ND	0.868	"								
p-Ethyltoluene	ND	0.492	"								
Propylene	ND	0.172	"								
Styrene	ND	0.426	"								
Tetrachloroethylene	ND	0.678	"								
Tetrahydrofuran	ND	0.590	"								
Toluene	ND	0.377	"								
trans-1,2-Dichloroethylene	ND	0.396	"								
trans-1,3-Dichloropropylene	ND	0.454	"								
Trichloroethylene	ND	0.134	"								
Trichlorofluoromethane (Freon 11)	ND	0.562	"								
Vinyl acetate	ND	0.352	"								
Vinyl bromide	ND	0.437	"								
Vinyl Chloride	ND	0.128	"								
LCS (BB21894-BS1) LCS									Prepared & Analyzed: 02/15/2022		
1,1,1,2-Tetrachloroethane	9.62		ppbv	10.0		96.2	70-130				
1,1,1-Trichloroethane	8.92		"	10.0		89.2	70-130				
1,1,2,2-Tetrachloroethane	9.94		"	10.0		99.4	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.76		"	10.0		97.6	70-130				
1,1,2-Trichloroethane	10.1		"	10.0		101	70-130				
1,1-Dichloroethane	9.39		"	10.0		93.9	70-130				
1,1-Dichloroethylene	8.75		"	10.0		87.5	70-130				
1,2,4-Trichlorobenzene	8.16		"	10.0		81.6	70-130				
1,2,4-Trimethylbenzene	8.64		"	10.0		86.4	70-130				
1,2-Dibromoethane	10.0		"	10.0		100	70-130				
1,2-Dichlorobenzene	8.07		"	10.0		80.7	70-130				
1,2-Dichloroethane	7.98		"	10.0		79.8	70-130				
1,2-Dichloropropane	10.1		"	10.0		101	70-130				
1,2-Dichlorotetrafluoroethane	9.00		"	10.0		90.0	70-130				
1,3,5-Trimethylbenzene	8.63		"	10.0		86.3	70-130				
1,3-Butadiene	8.29		"	10.0		82.9	70-130				
1,3-Dichlorobenzene	8.39		"	10.0		83.9	70-130				
1,3-Dichloropropane	10.0		"	10.0		100	70-130				
1,4-Dichlorobenzene	8.48		"	10.0		84.8	70-130				
1,4-Dioxane	10.3		"	10.0		103	70-130				
2-Butanone	9.86		"	10.0		98.6	70-130				
2-Hexanone	8.12		"	10.0		81.2	70-130				
3-Chloropropene	10.3		"	10.0		103	70-130				
4-Methyl-2-pentanone	8.76		"	10.0		87.6	70-130				
Acetone	9.52		"	10.0		95.2	70-130				
Acrylonitrile	8.52		"	10.0		85.2	70-130				
Benzene	9.62		"	10.0		96.2	70-130				
Benzyl chloride	9.72		"	10.0		97.2	70-130				
Bromodichloromethane	9.41		"	10.0		94.1	70-130				
Bromoform	9.63		"	10.0		96.3	70-130				
Bromomethane	9.99		"	10.0		99.9	70-130				
Carbon disulfide	10.2		"	10.0		102	70-130				
Carbon tetrachloride	8.58		"	10.0		85.8	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB21894 - EPA TO15 PREP											
LCS (BB21894-BS1) LCS							Prepared & Analyzed: 02/15/2022				
Chlorobenzene	8.55		ppbv	10.0		85.5	70-130				
Chloroethane	10.9		"	10.0		109	70-130				
Chloroform	9.09		"	10.0		90.9	70-130				
Chloromethane	9.06		"	10.0		90.6	70-130				
cis-1,2-Dichloroethylene	9.81		"	10.0		98.1	70-130				
cis-1,3-Dichloropropylene	10.5		"	10.0		105	70-130				
Cyclohexane	10.8		"	10.0		108	70-130				
Dibromochloromethane	9.00		"	10.0		90.0	70-130				
Dichlorodifluoromethane	8.85		"	10.0		88.5	70-130				
Ethyl acetate	9.61		"	10.0		96.1	70-130				
Ethyl Benzene	8.85		"	10.0		88.5	70-130				
Hexachlorobutadiene	8.72		"	10.0		87.2	70-130				
Isopropanol	10.2		"	10.0		102	70-130				
Methyl Methacrylate	10.6		"	10.0		106	70-130				
Methyl tert-butyl ether (MTBE)	8.22		"	10.0		82.2	70-130				
Methylene chloride	9.27		"	10.0		92.7	70-130				
n-Heptane	10.3		"	10.0		103	70-130				
n-Hexane	10.9		"	10.0		109	70-130				
o-Xylene	8.56		"	10.0		85.6	70-130				
p- & m- Xylenes	17.2		"	20.0		86.0	70-130				
p-Ethyltoluene	9.00		"	10.0		90.0	70-130				
Propylene	10.6		"	10.0		106	70-130				
Styrene	8.89		"	10.0		88.9	70-130				
Tetrachloroethylene	9.38		"	10.0		93.8	70-130				
Tetrahydrofuran	10.4		"	10.0		104	70-130				
Toluene	9.00		"	10.0		90.0	70-130				
trans-1,2-Dichloroethylene	9.67		"	10.0		96.7	70-130				
trans-1,3-Dichloropropylene	10.1		"	10.0		101	70-130				
Trichloroethylene	8.69		"	10.0		86.9	70-130				
Trichlorofluoromethane (Freon 11)	8.79		"	10.0		87.9	70-130				
Vinyl acetate	9.01		"	10.0		90.1	70-130				
Vinyl bromide	10.3		"	10.0		103	70-130				
Vinyl Chloride	8.79		"	10.0		87.9	70-130				

120 RESEARCH DRIVE
STRATFORD, CT 06615
www.YORKLAB.com
(203) 325-1371
132-02 89th AVENUE
RICHMOND HILL, NY 11418
FAX (203) 357-0166
ClientServices@yorklab.com

Sample and Data Qualifiers Relating to This Work Order

TO-VAC — The final vacuum in the canister was less than -2 inches Hg vacuum. The time integrated sampling may be affected and not reflect proper sampling over the time period. The data user should take note.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

120 RESEARCH DRIVE
STRATFORD, CT 06615
www.YORKLAB.com
(203) 325-1371
132-02 89th AVENUE
RICHMOND HILL, NY 11418
FAX (203) 357-0166
ClientServices@yorklab.com

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22B0429

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | 800-306-9675

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Langan	Company:	Company:	100964201	RUSH - Next Day
Address: 300 Kimball Drive Parsippany, NJ 07054	Address: SAME	Address: SAME	YOUR Project Name: 213 Meadow Street	RUSH - Two Day
Phone.: 973 560 4900	Phone.:	Phone.:		RUSH - Three Day
Contact: Molly Mattern	Contact:	Contact:		RUSH - Four Day
E-mail: mmattern@Langan.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Morgan McBride

Matrix Codes
- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From
- New York X
- New Jersey
- Connecticut
- Pennsylvania
- Other:

Report / EDD Type (circle selections)
- Summary Report | CT RCP | Standard Excel EDD
- QA Report | CT RCP DQA/DUE | EQuIS (Standard)
- NY ASP A Package | NJDEP Reduced | NYSDEC EQuIS
- NY ASP B Package | Deliverables | NJDEP SRP HazSite
- NJDKQP | Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
044_LSV-1	AS	2/8/22 1450	TO-15 VOCs	6L summa
canister vacuum (in Hg) Before sampling: -29 After sampling: -2	*canister ID* 36459		*Flow cont. ID* 5708	

Comments: *Note: this COC is for AIR sample
AS = air soil vapor sample

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction
- Field Filtered
- Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Morgan McBride Langan	2/8/22 1900	EQU Facility / Langan	2/8/22 1900	/ Langan	2/9/22 1200
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
Andrew S. York	2/9/22 1200	Andrew S. York	2/9/22		
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					2/11/22 6:37 Degrees C

ATTACHMENT E

DATA USABILITY SUMMARY REPORTS

LANGAN

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ENGINEERING & ENVIRONMENTAL SERVICES

Technical Memorandum

989 Lenox Drive Lawrenceville, NJ 08648 T: 609.282.8000
Mailing Address: 989 Lenox Drive Lawrenceville, NJ 08648

To: Amanda Forsburg, Langan Senior Project Manager

From: Joe Conboy, Langan Senior Staff Chemist

Date: February 28, 2022

Re: Data Usability Summary Report
For 213 Meadow Street
February 2022 Soil Samples
Langan Project No.: 100964202

This memorandum presents the findings of an analytical data validation from the analysis of soil samples collected in February 2022 by Langan Engineering and Environmental Services at 213 Meadow Street site. The samples were analyzed by York Analytical Laboratories, Inc. (NYSDOH NELAP registration # 10854 and 12058) for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), per- and polyfluoroalkyl substances (PFAS), herbicides, polychlorinated biphenyls (PCBs), pesticides, metals, cyanide (CN), hexavalent chromium (CrVI), and trivalent chromium (CrIII) by the methods specified below.

- VOCs by SW-846 Method 8260C
- SVOCs by SW-846 Method 8270D and 8270D SIM
- PFAS by USEPA Method 537M
- Herbicides by SW-846 Method 8151A
- PCBs by SW-846 Method 8082A
- Pesticides by SW-846 Method 8081B
- Metals by SW-846 Methods 6010D/7473
- Cyanide by SW-846 Method 9014/9010C
- Hexavalent Chromium by SW-846 Method 7196A
- Trivalent Chromium (calculated)

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, level of data validation, and analytical parameters subject to review.

Validation Overview

This data validation was performed in accordance with the following guidelines, where applicable:

- USEPA Region II Standard Operating Procedures (SOPs) for Data Validation
- USEPA Contract Laboratory Program "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020)

- USEPA Contract Laboratory Program "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020), and
- published analytical methodologies.

USEPA Method 537 was developed and validated for the analysis of finished drinking water from surface water and groundwater sources. Laboratories have modified Method 537 to enable the analysis of groundwater and soil, and to incorporate PFAS analytes not currently addressed by the promulgated method. NYSDOH offers certification for PFOA and PFOS in the drinking water category. Non-potable water and soil certification is not available; however, the method describes acceptable modifications. USEPA recommends that modified methods be assessed relative to project goals and data quality objectives.

The following acronyms may be used in the discussion of data-quality issues:

%D	Percent Difference	MB	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
FB	Field Blank	MS	Matrix Spike
FD	Field Duplicate	MSD	Matrix Spike Duplicate
ICAL	Initial Calibration	RF	Response Factor
ICV	Initial Calibration Verification	RL	Reporting Limit
ISTD	Internal Standard	RPD	Relative Percent Difference
LCL	Lower Control Limit	RSD	Relative Standard Deviation
LCS	Laboratory Control Sample	TB	Trip Blank
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit

Tier 1 data validation is based on completeness and compliance checks of sample-related QC results including: sample receipt documentation; analytical holding times; sample preservation; blank results (method, field, and trip); surrogate recoveries; MS/MSD recoveries and RPDs values; field duplicate RPDs, laboratory duplicate RPDs, and LCS/LCSD recoveries and RPDs. All analytical reports described herein underwent Tier 1 validation review.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA guidelines and our best professional judgment:

R – The sample results are unusable because certain criteria were not met when generating the data. The analyte may or may not be present in the sample.

J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected at a level greater than or equal to the reporting limit; however, the reported reporting limit is approximate and may be inaccurate or imprecise.

U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned, these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are considered invalid and are not technically usable for data interpretation. Data that is otherwise qualified because of minor data-quality anomalies are usable, as qualified in Table 2 (attached).

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

VOCs by SW-846 Method 8260C

22B0179

The LCS/LCSD for batch BB21592 exhibited percent recoveries below the LCL for 1,2,3-trichlorobenzene (80.6%, 79.7%), 1,3-dichlorobenzene (82.4%, 81.6%), 1,4-dichlorobenzene (84.3%, 82.7%), hexachlorobutadiene (82.7%, 82.4%), and t-butylbenzene (73.8%, 73.3%). The associated results in samples 001_LSB-2_2-4, 003_LSB-3_2-4, and 008_LSB-4_4-6 are qualified as UJ because of potential low bias.

The TB (010_TB-1) exhibited a detection of methylene chloride (1.67 ug/L). The associated results in samples 001_LSB-2_2-4, 003_LSB-3_2-4, and 008_LSB-4_4-6 are qualified as U at the reporting limit because of potential blank contamination.

22B0234

The TB (012_TB-2) exhibited a detection of methylene chloride (1.01 ug/l). The associated results in samples 016_LSB-1_4-6, 025_LSB-5_15-17, and 026_LSB-7_2-4 are qualified as U at the reporting limit because of potential blank contamination.

The FB (014_FB-1) exhibited a detection of methylene chloride (9.45 ug/l). The associated results in samples 016_LSB-1_4-6, 025_LSB-5_15-17, and 026_LSB-7_2-4 are qualified as U at the reporting limit because of potential blank contamination.

The LCS for batch BB21663 exhibited a percent recovery below the LCL for tetrachloroethene (79.9%). The associated results in samples 025_LSB-5_15-17, 026_LSB-7_2-4, and 029_DUP-1 are qualified as UJ because of potential low bias.

SVOCs by SW-846 Method 8270D and 8270D SIM

22B0179

The LCS for batch BB21428 exhibited percent recoveries below the LCL for 2,4-dinitrophenol (0%), 4,6-dinitro-2-methylphenol (5.12%), benzoic acid (2.68%), and hexachlorocyclopentadiene (0%). The associated results in samples 001_LSB-2_2-4, 003_LSB-3_2-4, and 008_LSB-4_4-6 are qualified as UJ because of potential low bias.

PCBs by SW-846 Method 8082A

22B0179

Sample 001_LSB-2_2-4 exhibited a percent recovery below the LCL for the surrogate decachlorobiphenyl (50%). The associated results are qualified as UJ because of potential low bias.

Sample 003_LSB-3_2-4 exhibited a percent recovery below the LCL for the surrogate decachlorobiphenyl (51%). The associated results are qualified as UJ because of potential low bias.

Sample 008_LSB-4_4-6 exhibited a percent recovery below the LCL for the surrogate decachlorobiphenyl (45.5%). The associated results are qualified as J or UJ because of potential low bias.

PCB calculations are based upon the average response of five peaks for PCB-1254. For sample 008_LSB-4_4-6, an interference was present and the analyst was unable to use all five peaks. The associated result is qualified J based on a potential bias.

Metals by SW-846 Methods 6010D/7471B

22B0179

The LCS for batch BB21541 exhibited percent recoveries above the UCL for barium (134%), cadmium (130%), cobalt (131%), and nickel (157%). The associated results in samples 001_LSB-2_2-4, 003_LSB-3_2-4, and 008_LSB-4_4-6 are qualified as J because of potential high bias.

The FB (014_FB-1) exhibited a detection of sodium (167 mg/l). The associated results in samples 016_LSB-1_4-6, 022_LSB-6_8-10, 022_LSB-6_8-10, 025_LSB-5_15-17, 026_LSB-7_2-4, and 029_DUP-1 are qualified as J because of potential blank contamination.

22B0234

The laboratory duplicate and parent sample (015_LSB-1_2-4) exhibited a RPD above the control limit for mercury (48.2%). The associated results are qualified as J because of potential indeterminate bias.

The LCS for batch BB21610 exhibited percent recoveries above the UCL for nickel (142%), barium (126%), and copper (127%). The associated results in samples 016_LSB-1_4-6, 022_LSB-6_8-10, 025_LSB-5_15-17, 026_LSB-7_2-4, and 029_DUP-1 are qualified as J because of potential high bias.

The LCS for batch BB22088 exhibited a percent recovery above the UCL for nickel (130%). The associated results in samples 015_LSB-1_2-4 and 023_LSB-5_4-7 are qualified as J because of potential high bias.

The MS performed on sample 016_LSB-1_4-6 exhibited a percent recovery above the UCL for mercury (135%). The associated results in sample 016_LSB-1_4-6 are qualified as J because of potential high bias.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by SW-846 Method 8260C

22B0179

The LCS/LCSD for batch BB21592 exhibited percent recoveries above the UCL for chloroethane (157%, 156%) and trichlorofluoromethane (147%, 144%). The associated results are non-detect. No qualification is necessary.

22B0234

The MB for batch BB21663 exhibited a detection of bromomethane (0.0042 mg/kg). The associated results are non-detect. No qualification is necessary.

The FB (014_FB-1) exhibited detections of aluminum (4.83 mg/l), iron (8.04 mg/l), lead (0.0279 mg/l), magnesium (35.8 mg/l), manganese (2.47 mg/l), nickel (0.0947 mg/l), potassium (4.85 mg/l), calcium (58.7 mg/l), barium (0.273 mg/l), chromium, total (0.0114 mg/l), cobalt (0.0127 mg/l), copper (0.0354 mg/l), vanadium (0.0185 mg/l), and zinc (0.0807 mg/l). The associated results are >10X the contamination. No qualification is necessary.

SVOCs by SW-846 Method 8270D and 8270D SIM

22B0234

The FB (014_FB-1) exhibited a detection of naphthalene (0.140 ug/l). The associated results are >10X the contamination. No qualification is necessary.

Sample 029_DUP-1 exhibited percent recoveries above the UCL for the surrogates 2-fluorophenol (111%) and nitrobenzene-d5 (112%). No more than one surrogate from a single fraction was recovered outside of the control limits. No qualification is necessary.

PFAS by USEPA Method 537M

22B0234

The LCS for batch BB21569 exhibited percent recoveries above the UCL for PFOS (132%) and NEtFOSAA (135%). The associated results are non-detect. No qualification is necessary.

Metals by SW-846 Methods 6010D/7471B

22B0179

The MB for batch BB21541-BLK1 exhibited a detection of calcium (6.27 mg/kg). The associated results are >10X the contamination. No qualification is necessary.

The LCS for batch BB21541 exhibited a percent recovery above the UCL for beryllium (131%). The associated results are non-detect. No qualification is necessary.

22B0234

The MB for batch BB21610 exhibited detections of potassium (13.1 mg/kg) and calcium (6.93 mg/kg). The associated results are >10X the contamination. No qualification is necessary.

The MB for batch BB22088 exhibited detections of zinc (4.09 mg/kg) and calcium (71.2 mg/kg). The associated results are >10X the contamination. No qualification is necessary.

FIELD DUPLICATE:

One field duplicate and parent sample pair was collected and analyzed for all parameters. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than ±2X the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 50% for soil. The following field duplicate and parent sample pairs were compared to and met the precision criteria:

- 029_DUP-1 and 026_LSB-7_2-4

The field duplicate and parent sample (026_LSB-7_2-4 and 029_DUP-1) exhibited RPDs above the control limit for 2-methylnaphthalene (80.4%), acenaphthylene (107.9%), fluoranthene (77%), naphthalene (104.6%), and pyrene (61.2%). The associated results are qualified as J because of potential indeterminate bias.

CONCLUSION:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



Joe Conboy
Senior Staff Chemist

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

Technical Memorandum

989 Lenox Drive Lawrenceville, NJ 08648 T: 609.282.8000
Mailing Address: 989 Lenox Drive Lawrenceville, NJ 08648

To: Amanda Forsburg, Langan Senior Project Manager

From: Joe Conboy, Langan Senior Staff Chemist

Date: February 25, 2022

Re: Data Usability Summary Report
For 213 Meadow Street
February 2022 Groundwater Samples
Langan Project No.: 100964202

This memorandum presents the findings of an analytical data validation from the analysis of soil samples collected in February 2022 by Langan Engineering and Environmental Services at 213 Meadow Street site. The samples were analyzed by York Analytical Laboratories, Inc. (NYSDOH NELAP registration # 10854 and 12058) for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), per- and polyfluoroalkyl substances (PFAS), herbicides, polychlorinated biphenyls (PCBs), pesticides, metals, cyanide (CN), hexavalent chromium (CrVI), and trivalent chromium (CrIII) by the methods specified below.

- VOCs by SW-846 Method 8260C
- SVOCs by SW-846 Method 8270D and 8270 SIM
- PFAS by USEPA Method 537M
- Herbicides by SW-846 Method 8151A
- PCBs by SW-846 Method 8082A
- Pesticides by SW-846 Method 8081B
- Metals by SW-846 Methods 6010D/7471B
- Cyanide by SW-846 Method 9012B
- Hexavalent Chromium by SW-846 Method 7196A
- Trivalent Chromium (calculated)

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, level of data validation, and analytical parameters subject to review.

Validation Overview

This data validation was performed in accordance with the following guidelines, where applicable:

- USEPA Region II Standard Operating Procedures (SOPs) for Data Validation
- USEPA Contract Laboratory Program “National Functional Guidelines for Organic Superfund Methods Data Review” (EPA 540- R-20-005, November 2020)

- USEPA Contract Laboratory Program "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020), and
- published analytical methodologies.

USEPA Method 537 was developed and validated for the analysis of finished drinking water from surface water and groundwater sources. Laboratories have modified Method 537 to enable the analysis of groundwater and soil, and to incorporate PFAS analytes not currently addressed by the promulgated method. NYSDOH offers certification for PFOA and PFOS in the drinking water category. Non-potable water and soil certification is not available; however, the method describes acceptable modifications. USEPA recommends that modified methods be assessed relative to project goals and data quality objectives.

The following acronyms may be used in the discussion of data-quality issues:

%D	Percent Difference	MB	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
FB	Field Blank	MS	Matrix Spike
FD	Field Duplicate	MSD	Matrix Spike Duplicate
ICAL	Initial Calibration	RF	Response Factor
ICV	Initial Calibration Verification	RL	Reporting Limit
ISTD	Internal Standard	RPD	Relative Percent Difference
LCL	Lower Control Limit	RSD	Relative Standard Deviation
LCS	Laboratory Control Sample	TB	Trip Blank
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit

Tier 1 data validation is based on completeness and compliance checks of sample-related QC results including: sample receipt documentation; analytical holding times; sample preservation; blank results (method, field, and trip); surrogate recoveries; MS/MSD recoveries and RPDs values; field duplicate RPDs, laboratory duplicate RPDs, and LCS/LCSD recoveries and RPDs. All analytical reports described herein underwent Tier 1 validation review.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA guidelines and our best professional judgment:

R – The sample results are unusable because certain criteria were not met when generating the data. The analyte may or may not be present in the sample.

J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected at a level greater than or equal to the reporting limit; however, the reported reporting limit is approximate and may be inaccurate or imprecise.

U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned, these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are considered invalid and are not technically usable for data interpretation. Data that is otherwise qualified because of minor data-quality anomalies are usable, as qualified in Table 2 (attached).

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

VOCs by SW-846 Method 8260C

22B0319

The LCS/LCSD for batch BB21678 exhibited percent recoveries below the LCL for 1,2,3-trichlorobenzene (72.3%, 75.3%), bromomethane (31.9%, 28.2%), 1,2,4-trichlorobenzene (75.7%), bromoform (75.7%), 1,3-dichlorobenzene (84.5%), and t-butylbenzene (75.7%). This LCS/LCSD also exhibited a RPD above the control limit for vinyl chloride (39.2%). The associated results in samples 032_LMW-1, 033_DUP-2, and 034_LMW-2 are qualified as UJ because of potential bias.

22B0357

The TB (039_TB-4) exhibited a detection of acetone (1.12 ug/l), tert-butyl alcohol (0.610 ug/l), and 2-butanone (0.650 ug/L). The associated results in samples 040_LMW-4 and 041_LMW-3 are qualified as J or U at the higher of the sample concentration and the reporting limit because of potential blank contamination.

The LCS/LCSD for batch BB21678 exhibited percent recoveries below the LCL for 1,2,3-trichlorobenzene (72.3%, 75.3%), bromomethane (31.9%, 28.2%), 1,2,4-trichlorobenzene (75.7%), bromoform (75.7%), 1,3-dichlorobenzene (84.5%) and t-butylbenzene (75.7%). This LCS/LCSD also exhibited a RPD above the

control limit for vinyl chloride (39.2%). The associated results in samples 040_LMW-4 and 041_LMW-3 are qualified as UJ because of potential bias.

SVOCs by SW-846 Method 8270D and 8270D SIM

22B0319

The LCS for batch BB21821 exhibited percent recoveries outside of control limits for benzoic acid (23.4%), hexachlorocyclopentadiene (0%), benzo(g,h,i)perylene (144%) and dibenz(a,h)anthracene (143%). The associated results in samples 032_LMW-1, 033_DUP-2 and 034_LMW-2 are qualified as J or UJ because of potential bias.

The sample 041_LMW-3 exhibited an exceedance of the recommended holding time for the extraction of 1,4-dioxane by SVOC SIM analyses (1 day). The associated results are qualified as J because of potential low bias.

22B0357

The LCS for batch BB21821 exhibited a percent recovery below the LCL for benzoic acid (23.4%) and hexachlorocyclopentadiene (0%). The associated results in samples 040_LMW-4 and 041_LMW-3 are qualified as UJ because of potential low bias.

PFAS by USEPA Method 537M

22B0319

The LCS/LCSD for batch BB21642 exhibited a RPD above the control limit for PFDA (35.2%). The associated results in samples 032_LMW-1, 033_DUP-2 and 034_LMW-2 are qualified as J or UJ because of potential indeterminate bias.

Sample 032_LMW-1 exhibited a percent recovery above the UCL for the isotope dilution standard M2-8:2 FTS (203%). The associated results are qualified as UJ because of potential high bias.

Sample 034_LMW-2 exhibited a percent recovery above the UCL for the isotope dilution standard M2-6:2 FTS (221%). The associated results are qualified as UJ because of potential high bias.

22B0357

Sample 040_LMW-4 exhibited a percent recovery below the LCL for the isotope dilution standard 13C8-FOSA (5.96%). The associated results are qualified as UJ because of potential low bias.

Sample 040_LMW-4 exhibited percent recoveries above the UCL for the isotope dilution standard N-MeFOSAA (154%), NEtFOSAA (171%), 6:2 FTS (292%), and 8:2 FTS (224%). The associated results are qualified as J or UJ because of potential high bias.

Sample 041_LMW-3 exhibited a percent recovery below the LCL for the isotope dilution standard 13C8-FOSA (4.09%). The associated results are qualified as UJ because of potential low bias.

Sample 041_LMW-3 exhibited percent recoveries above the UCL for the isotope dilution standard 6:2 FTS (220%) and 8:2 FTS (297%). The associated results are qualified as UJ because of potential high bias.

The LCS/LCSD for batch BB21642 exhibited a RPD above the control limit for PFDA (35.2%). The associated results in samples 040_LMW-4 and 041_LMW-3 are qualified as J or UJ because of potential indeterminate bias.

PCBs by SW-846 Method 8082A

22B0319

Sample 032_LMW-1 exhibited a percent recovery below the LCL for the surrogate decachlorobiphenyl (29.0%). The associated results are qualified as UJ because of potential low bias.
Sample 033_DUP-2 exhibited a percent recovery below the LCL for the surrogate decachlorobiphenyl (26.0%). The associated results are qualified as UJ because of potential low bias.

22B0357

Sample 040_LMW-4 exhibited a percent recovery below the LCL for the surrogate decachlorobiphenyl (28%). The associated results are qualified as UJ because of potential low bias.

Pesticides by SW-846 Method 8081B

22B0319

Sample 033_DUP-2 exhibited a percent recovery below the LCL for the surrogate decachlorobiphenyl (28.7%). The associated results are qualified as UJ because of potential low bias.

Metals by SW-846 Methods 6010D/7471B

22B0319

The FB (035_FB-2) exhibited a detection of zinc (0.0465 mg/l). The associated results in samples 032_LMW-1 and 034_LMW-2 are qualified as U at the sample concentration because of potential blank contamination.

The LCS for batch BB21916 exhibited a percent recovery below the LCL for selenium (77.7%). The associated results in samples 032_LMW-1, 033_DUP-2 and 034_LMW-2 are qualified as J because of potential low bias.

22B0357

The LCS for batch BB21916 exhibited a percent recovery below the LCL for selenium (77.7%). The associated results in samples 040_LMW-4 and 041_LMW-3 are qualified as J because of potential low bias.

Cyanide by SW-846 Method 9012B

22B0319

The FB (035_FB-2) exhibited a detection of cyanide (0.0344 mg/l). The associated results in samples 032_LMW-1, 033_DUP-2, and 034_LMW-2 are qualified as U at the sample concentration because of potential blank contamination.

Hexavalent Chromium by SW-846 Method 7196A

22B0319

The samples 032_LMW-1 and 034_LMW-2 exhibited an exceedance of the recommended holding time for hexavalent chromium by 14 hours. The associated results are qualified as UJ because of potential low bias.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by SW-846 Method 8260C

22B0319

The LCS/LCSD for batch BB21678 exhibited a percent recovery above the UCL for vinyl acetate (108%, 117%). The associated results are non-detect. No qualification is necessary.

22B0357

The TB (039_TB-4) exhibited a detection of methylene chloride (2.67 ug/l). The associated results are non-detect. No qualification is necessary.

The LCS/LCSD for batch BB21678 exhibited a percent recovery above the UCL for vinyl acetate (108%, 117%). The associated results are non-detect. No qualification is necessary.

SVOCs by SW-846 Method 8270D and 8270D SIM

22B0319

The LCS for batch BB21821 exhibited a percent recovery above the UCL for hexachlorobutadiene (126%). The associated results are non-detect. No qualification is necessary.

22B0357

The LCS for batch BB21821 exhibited percent recoveries above the UCL for benzo(g,h,i)perylene (144%), dibenz(a,h)anthracene (143%), and hexachlorobutadiene (126%). The associated results are non-detect. No qualification is necessary.

Metals by SW-846 Methods 6010D/7471B

22B0319

The FB (035_FB-2) exhibited detections of iron (1.20 mg/l) and calcium (0.273 mg/l). The associated results are >10X the contamination. No qualification is necessary.

FIELD DUPLICATE:

Seven field duplicate and parent sample pairs were collected and analyzed for all parameters. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than ±1X the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 30% for groundwater. The following field duplicate and parent sample pairs were compared to and met the precision criteria:

- 033_DUP-2 and 032_LMW-1

The field duplicate and parent sample (032_LMW-1 and 033_DUP-2) exhibited RPDs above the control limit for acenaphthene (36.3%), benzo(a)anthracene (33.3%), benzo(a)pyrene (53.4%), benzo(b)fluoranthene (65.5%), benzo(g,h,i)perylene (47.2%), benzo(k)fluoranthene (53.8%), chrysene (37.2%), cyanide (112.7%), fluorene (33%), indeno(1,2,3-c,d)pyrene (46.2%), naphthalene (37.5%), and PFBS (59.6%). The associated results are qualified as J or UJ because of potential indeterminate bias.

CONCLUSION:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



Joe Conboy
Senior Staff Chemist

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

Technical Memorandum

989 Lenox Drive Lawrenceville, NJ 08648 T: 609.282.8000
Mailing Address: 989 Lenox Drive Lawrenceville, NJ 08648

To: Amanda Forsburg, Langan Senior Project Scientist

From: Joe Conboy, Langan Senior Staff Chemist

Date: February 25, 2022

Re: Data Usability Summary Report
For 213 Meadow Street
February 2022 Soil Vapor Samples
Langan Project No.: 100964202

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of air samples collected in February 2022 by Langan Engineering and Environmental Services at the 213 Meadow Street site. The samples were analyzed by York Analytical Laboratories, Inc. (NYSDOH NELAP registration # 10854 and 12058) for volatile organic compounds (VOCs) by the methods specified below.

- VOCs by USEPA Method TO-15

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

Validation Overview

This data validation was performed in accordance with the following guidelines, where applicable:

- USEPA Region II Standard Operating Procedure (SOP) #HW-31, "Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15" (September 2016, Revision 6),
- USEPA Contract Laboratory Program "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020), and
- published analytical methodologies.

The following acronyms may be used in the discussion of data-quality issues:

FB	Field Blank	MDL	Method Detection Limit
FD	Field Duplicate	MS	Matrix Spike
ISTD	Internal Standard	MSD	Matrix Spike Duplicate
LCL	Lower Control Limit	RL	Reporting Limit
LCS	Laboratory Control Sample	RPD	Relative Percent Difference
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit
MB	Method Blank		

Tier 1 data validation is based on completeness and compliance checks of sample-related QC results including: sample receipt documentation; analytical holding times; sample preservation; blank results (method, field, and trip); surrogate recoveries; MS/MSD recoveries and RPDs values; field duplicate RPDs, laboratory duplicate RPDs, and LCS/LCSD recoveries and RPDs. All analytical reports described herein underwent Tier 1 validation review.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- **R –** The sample results are unusable because certain criteria were not met when generating the data. The analyte may or may not be present in the sample.
- **J –** The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- **UJ –** The analyte was not detected at a level greater than or equal to the reporting limit; however, the reported reporting limit is approximate and may be inaccurate or imprecise.
- **U –** The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- **NJ –** The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are considered invalid and are not technically usable for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified in Table 2 (attached).

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

VOCs by USEPA Method TO-15:

22B0358

The final vacuum measurements in the canister for samples 042_LSV-4. 043_DUP-3, 045_LSV-2, and 046_LSV-3 were less than -2 in. Hg. All associated results are qualified as J or UJ because of potential low bias.

22B0429

The final vacuum in the canister for sample 044_LSV-1 was less than -2 in. Hg. All associated results in sample 044_LSV-1 are qualified as J or UJ because of potential low bias.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. No other deficiencies were identified.

FIELD DUPLICATE:

One field duplicate and parent sample pairs was collected and analyzed for all parameters. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than ±1X the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 30% for vapor. The following field duplicate and parent sample pairs were compared to the precision criteria:

- 043_DUP-3 and 042_LSV-4

The field duplicate (043_DUP-3) and parent sample (042_LSV-4) exhibited RPDs above the control limit for 1,1-dichloroethane (165%), dichlorodifluoromethane (173%), and tert-butyl methyl ether (97.9%). The associated results are qualified as J or UJ because of potential indeterminate bias.

CONCLUSION:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



Joe Conboy
Senior Staff Chemist

LANGAN

Memorandum

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive Parsippany, NJ 07054 T: 973.560.4900 F: 973.560.4901

To: Simeon Maleh, Varun Sanyal, Bryan Kelly – GO Quay, LLC

From: Amanda Forsburg, Steve Ciambruschini - Langan

Info: Linda Shaw – Knauf Shaw LLP
Molly Mattern, Jess Friscia – Langan

Date: 26 October 2023

Re: Addendum to 11 March 2022 Phase I ESA
213 Meadow Street
Brooklyn, New York
Langan Project No.: 100964202

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) has prepared this Addendum to the Phase I Environmental Site Assessment (ESA) prepared by Langan for the property located at 213 Meadow Street, Brooklyn, New York on behalf of GO Quay, LLC and dated 11 March 2022.

The Phase I ESA reported that a questionnaire requesting information in accordance with ASTM E-1527-13 had been provided to the property owner, but a completed copy had not been returned. On 17 October 2023, Langan received a copy of the completed questionnaire dated 29 September 2023 (Attachment 1) and an Acknowledgement of Notice of Intent for Coverage under SPDES Multi-Sector General Permit for Stormwater Discharge Associate with Industrial Activity (Attachment 2) issued to Castle Sanitation Corporation by the New York State Department of Environmental Conservation (NYDSEC) Division of Water, Bureau of Water Permits and dated 5 July 2023.

The Property Owner / Operator / Key Site Manager Questionnaire was completed by Daniel Colasuonno, one of the property owners. Mr. Colasuonno identified that stained soil/pavement and solid waste including trash, construction debris, or demolition debris are present at the subject property. This documentation is consistent with the stained concrete and operations by a demolition contractor that were observed during the site reconnaissance completed by Langan on 25 January 2022. Mr. Colasuonno also noted that a SPDES filing with NYSDEC exists for the subject property and provided a copy of the documentation as noted above. Mr. Colasuonno stated that he is unaware of any environmental conditions or documents except the SPDES permit and a notice of violation related to litigation with River Keepers regarding runoff water. This issue was reported to be previously settled but no further information regarding the violation was provided. Mr. Colasuonno noted on the questionnaire that he cannot provide contact information or details for previous owners, occupants, or facility managers of the property.

The Acknowledgement of Notice of Intent for Coverage under SPDES states that the facility identified number is NYR00G305 and that the authorization became effective on 8 July 2023. The authorization is condition upon the property owner and operator having developed and implemented a Stormwater Pollution Prevention Plan (SWPPP). Annual reporting is due in January of each year.

Based on the additional information provided by Mr. Colasuonno, no changes to the conclusions of the 11 March 2022 Phase I ESA have been identified.

Attachments: 1 – ASTM E-1527-13 Property Owner / Operator / Key Site Manager Questionnaire
2 – Acknowledgement Letter (Castle Sanitation)

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MEMO

ATTACHMENT 1

Property Owner / Operator / Key Site Manager Questionnaire

ASTM PRACTICE E 1527-13:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Project Location/Address: 190 Varick Avenue
213 Meadow Street
Brooklyn NY

ASTM E-1527-13, Section 9.4

Are you aware of any of the following located on the subject property:

Pits, Ponds, or Lagoons?	Yes ☐	No ☑
Stained Soil or Pavement?	Yes ☑	No ☐
Stressed Vegetation?	Yes ☐	No ☑
Solid Waste (including trash, construction debris, or demolition debris)?	Yes ☑	No ☐
Wastewater or Discharges into Drains, Ditches, Underground Injection System, or Stream? HAVE SPDS Filing w/ DEC	Yes ☑	No ☐
Wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells)?	Yes ☐	No ☑
Septic Systems or Cesspools?	Yes ☐	No ☑

ASTM E-1527-13, Section 10.9

Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	Yes ☐	No ☑
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	Yes ☐	No ☑
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	Yes ☐	No ☑

ASTM E-1527-13, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	☑	☐	☐
Environmental compliance audit reports	☑	☐	☐
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits) SPDE Permit	☐	☐	☑
Registrations for underground and aboveground storage tanks	☑	☐	☐
Material safety data sheets	☑	☐	☐
Community-right-to-know plan	☑	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, facility response plan, etc.	☑	☐	☐
Reports regarding hydrogeologic conditions on the property or surrounding area	☑	☐	☐
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☐	☐	☑
Hazardous waste generator notices or reports	☑	☐	☐
Geotechnical studies	☑	☐	☐
Risk Assessments	☑	☐	☐
Recorded Activity and Use Limitations	☑	☐	☐
Environmental Cleanup Reports	☑	☐	☐

litigation w/ River keepers which was settled. This was for runoff water.

Do you have contact information for the prior owner of the property? **Yes** ☐ **No** ☑
If yes, please provide information below:

Prior Owner's Name Michael Levy

Contact person _____

Address _____

_____

Telephone Don't Have any contact info

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☑
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☑
If yes, please provide information below:

Prior Facility Manager's Name N/A

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☑ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: Daniel Colasuonno

Address: 79-51 Cooper Avenue

Glendale NY 11385

Signature: _____ Date: 9/29/2023

LANGAN

ATTACHMENT 2

Acknowledgement Letter (Castle Sanitation)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Bureau of Water Permits
625 Broadway, Albany, New York 12233-3505
P: (518) 402-8111 | F: (518) 402-9029
www.dec.ny.gov

7/5/2023

Castle Sanitation Corporation
79-51 Cooper Avenue
Glendale, NY 11385

Re: Acknowledgement of Notice of Intent for Coverage under SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (GP-0-23-001)
Facility Name: Castle Sanitation Corporation

SPDES ID: NYR00G305

Dear Owner/Operator,

This is to acknowledge that the New York State Department of Environmental Conservation (the Department) has received a complete electronic Notice of Intent (eNOI) for coverage under the State Pollutant Discharge Elimination System (SPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP) GP-0-23-001 for the following facility:

Castle Sanitation Corporation
213 Meadow Street
Brooklyn, NY 11237
Kings

The SPDES identification number for this facility is **NYR00G305**

This authorization becomes effective on **07/08/2023**

, and is conditioned upon the following:

- The information submitted in the eNOI received by the Department is accurate and complete.
- The Owner or Operator has developed and is implementing a Stormwater Pollution Prevention Plan (SWPPP) that complies with MSGP GP-0-23-001.
- When applicable, project review pursuant to the State Environmental Quality Review Act (SEQR) has been satisfied.
- All applicable Uniform Procedures Act (Environmental Conservation Law, 6NYCRR Part 621) permits have been obtained. Contact your Regional Permit Administrator

(http://www.dec.ny.gov/permits/363.html) for further information. See Appendix E in the Permit for Regional Offices contact information.

Annual Reporting
Please be advised that an Annual Certification Report (ACR) must be completed at the end of each calendar year and must be submitted electronically by January 28th of the following year. Access to the electronic ACR can be found on the Department's website.
https://www.dec.ny.gov/chemical/9009.html

Monitoring your stormwater discharges
You are responsible for making sure you understand all monitoring requirements. If your facility has stormwater discharges that are subject to quarterly or semi-annual benchmark or compliance monitoring (based upon information submitted in your NOI), then you are required to submit your sampling results using EPA's NetDMR system. Instructions on how to register for NetDMR are located on the DEC website at: http://www.dec.ny.gov/chemical/8461.html.

All questions related to DMR reporting or registering for NetDMR should be directed to (518) 402-8177 or email NetDMR@dec.ny.gov

Modifying the facility's NOI data
If you need to make changes to your existing eNOI information you must submit those changes electronically on the eNOI form.

Annual Regulatory Fee
The annual regulatory fee for the MSGP will be billed by the Department at the end of each Calendar year. For invoice questions contact the Department's Fee Determination Unit (518) 402-9343.

If you have any questions or require additional information, please contact Steven McCague at (518) 402-8108 or steven.mccague@dec.ny.gov. Please be sure to include the SPDES identification number of the facility on any forms or correspondence you send the Department related to this general permit coverage.

Sincerely,

Steven J McCague, P.E.
MSGP Permit and Coordinator

APPENDIX B

Quality Assurance Project Plan/Field Sampling Plan

Quality Assurance Project Plan/Field Sampling Plan (QAPP/FSP)

213 Meadow Street
Brooklyn, New York 11237

MTA Facilities Project Site #C224433

April 22, 2026

Prepared for:

Go Quay, LLC
c/o Gotham Organization, Inc.
111 Fifth Avenue, 9th Floor
Brooklyn, New York 10003

Prepared by:

Roux Environmental Engineering and Geology, D.P.C.
209 Shafter Street
Islandia, New York 11749

3084.0003Y103/CV

Environmental Consulting
& Management
+1.800.322.ROUX
rouxinc.com

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1. Introduction

Roux Environmental Engineering and Geology, D.P.C. (Roux), on behalf of GO Quay, LLC (Go Quay), has prepared this Quality Assurance Project Plan/Field Sampling Plan (QAPP/FSP). Go Quay entered into a Brownfield Cleanup Agreement (BCA), Index No. C224433-10-2025, with the New York State Department of Environmental Conservation (NYSDEC) as a Volunteer on March 22, 2026. The purpose of this QAPP/FSP is to describe the measures that will be taken to ensure that the data generated during performance of the Remedial Investigation (RI) for the property located at 213 Meadow Street in the Borough of Brooklyn, New York (Block 2951, Lot 1; Site) are of quality sufficient to meet project-specific data quality objectives (DQOs). This QAPP/FSP also includes field sampling procedures.

This QAPP/FSP was prepared in accordance with the guidance provided in NYSDEC Technical Guidance DER-10 Technical Guidance for Site Investigation and Remediation (DER-10), the NYSDEC Brownfield Cleanup Program (BCP) Guide, and the United States Environmental Protection Agency's (USEPA's) Guidance for the Data Quality Objectives Process (EPA QA/G 4).

1.1 Purpose

The QAPP/FSP describes in detail the field sampling and quality assurance/quality control (QA/QC) methods to be used during soil, soil vapor, and groundwater sampling tasks performed during the RI.

This QAPP/FSP provides guidelines and procedures to be followed by field personnel during performance of sampling during the RI. Information contained in this QAPP/FSP relates to:

- Sampling objectives (Section 2);
- Project organization (Section 3);
- Sample media, sampling locations, analytical suites, sampling frequencies and analytical laboratory (Section 4);
- Field sampling procedures (Section 5);
- Sample handling, sample analysis, and quality assurance/quality control (Section 6); and
- Site control procedures and decontamination (Section 7).

2. Sampling Objectives

The objective of the RI is to further assess the nature and extent of contamination associated with the following AOCs:

- Presence of contaminated urban fill; and
- Current and historical operations.

An inspection of the existing Site conditions will be conducted to determine final locations of soil borings, monitoring wells, and vapor sampling points based on actual field conditions.

Sampling procedures are discussed in Section 5 of this QAPP/FSP. A discussion of the DQOs and quality assurance/quality control is provided in Section 6.

3. Project Organization

A general and generic summary of the overall management structure and responsibilities of project team members are presented below. Professional profiles for the team are provided in Attachment 1.

Project Principal

Jessica Taylor, P.G. will serve as Project Principal. The Project Principal is responsible for defining project objectives and bears ultimate responsibility for the successful completion of the investigation.

Project Manager

Levi Curnutte will serve as Project Manager. The Project Manager will provide overall management for the implementation of the scope of work and will coordinate all field activities. The Project Manager is also responsible for data review/interpretation and report preparation.

Field Team Leader

The Field Team Leader will be determined prior to the start of work. The Field Team Leader bears the responsibility for the successful execution of the field program. The Field Team Leader will direct the activities of the technical staff in the field, as well as all subcontractors. The Field Team Leader will also assist in the interpretation of data and in report preparation. The Field Team Leader reports to the Project Manager.

Laboratory Project Manager

Elizabeth Flannery will serve as the Laboratory Project Manager at Eurofins Environment Testing Northeast, LLC. The Laboratory Project Manager is responsible for sample container preparation, sample custody in the laboratory, and completion of the required analysis through oversight of the laboratory staff. The Laboratory Project Manager will ensure that quality assurance procedures are followed and that an acceptable laboratory report is prepared and submitted. The Laboratory Project Manager reports to the Project Principal and Project Manager.

Quality Assurance Officer

The Quality Assurance Officer (QAO) will be determined prior to the start of work. The QAO is responsible for conducting reviews, inspections, and audits to ensure that the data collection is conducted in accordance with the FSP and QAPP. The QAO's responsibilities range from ensuring effective field equipment decontamination procedures and proper sample collection to the review of all laboratory analytical data for completeness and usefulness. The QAO reports to the Project Manager and makes independent recommendations to the Field Team Leader.

4. Sample Media, Locations, Analytical Suites, and Frequency

The media to be sampled during the RI includes soil, groundwater, and soil vapor. Sampling locations, analytical suites, and frequency vary by medium. The scope of the RI will include the collection of sufficient Site investigation data so that, together with the historical data, the entire Site will be sufficiently characterized to determine BCP eligibility as well as support the development of the Site-wide Remedial Action Work Plan (RAWP).

A discussion of the sampling schedule for each medium is provided below, and field and laboratory QC sampling as well as the proposed number of field samples to be collected for each medium is shown in Tables 1 and 2, respectively. The proposed sampling locations for each media are provided in Figure 1 (Figure 6 of the RIWP) and are also summarized on a boring matrix in Table 3. Specifics regarding the collection of samples at each location and for each task are provided in Section 5 of this QAPP/FSP.

Soil samples from all soil borings and all groundwater samples collected from the investigation described in detail below for soil and groundwater, respectively, will be analyzed for the target compound list (TCL)/Part 375 plus 30/target analyte list (TAL) (TCL + 30/TAL) parameters including:

- TCL/Part 375 VOC + 10 Tentatively identified compounds (TICs);
- TCL/Part 375 Base neutral acids (BNA)/SVOCs + 20 TICs;
- TCL/Part 375 Pesticides;
- TCL/Part 375 Herbicides;
- TCL/Part 375 PCBs;
- TAL/Part 375 Metals (including hexavalent chromium);
- Total Cyanide; and
- Emerging Contaminants (ECs) list includes 1,4-Dioxane and all Per- and Polyfluoroalkyl Substances (PFAS) compounds listed in the NYSDEC April 2023 “Sampling, Analysis, and Assessment of PFAS.” PFAS in soil and groundwater will be analyzed by United States Environmental Protection Agency (USEPA) Method 1633A and 1,4-Dioxane in groundwater will be analyzed by USEPA Method 8270D SIM and 1,4-Dioxane in soil will be analyzed by USEPA Method 8270D.

4.1 Soil Sampling

Soil samples are to be used to characterize the soil conditions for the AOCs at the Site, and to collect data sufficient to define the nature and extent of impacted soils. A total of 24 soil samples from 12 soil borings will be collected in a manner consistent with this QAPP/FSP (not including QA/QC).

At each soil boring, the proposed sample depth intervals are 2-4 feet below land surface (ft bls; or shallowest available interval beneath concrete layer) and 8-10 ft bls (or the 2 ft interval located above observed groundwater level). Each soil sample will be analyzed for TCL + 30/TAL and ECs listed above. If odor/ visual evidence of contamination or elevated photoionization detector (PID) readings are noted, additional samples will be collected from the interval that exhibits the highest contamination.

4.2 Groundwater Sampling

To evaluate groundwater quality conditions across the Site, five permanent monitoring wells (RX-01 through RX-05) will be installed in converted soil boring locations. Roux will collect a groundwater sample from each newly installed monitoring well location totaling five samples (not including QA/QC). All monitoring wells will be surveyed for horizontal coordinates, land surface elevation and measuring point elevation.

Monitoring wells will be constructed of 2-inch inside diameter, Schedule 40 polyvinyl chloride (PVC) casing and, 0.020 inch slot, machined screen. Well construction will be as follows:

- Well screens will be 10 feet long, and will be installed with three feet above and seven feet below the water table.
- A sand pack will be placed around the well screen, extending two feet above the top of the screened zone.
- A minimum two-foot-thick bentonite pellet seal will be placed above the sand pack. Once the pellets have been allowed to hydrate, cement bentonite grout will be pumped into the remaining annular space from the bottom up.
- The wells will be completed using locking well plugs, and flush mounted, bolt down, watertight, manhole covers cemented into place.

Each monitoring well to be sampled will be developed to ensure proper hydraulic connection with the aquifer and to reduce/eliminate turbidity of the groundwater. The wells will be developed using a submersible pump, which will be surged periodically until well yield is consistent and has turbidity below 50 nephelometric turbidity units (NTUs), if possible.

At least one week following redevelopment, all on-Site wells will then be sampled consistent with USEPA low-flow sampling requirements using a peristaltic pump and one round of groundwater samples will be collected in accordance with the QAPP/FSP. Prior to sampling, the depth to groundwater in each monitoring well will be measured using an electronic water level meter and a groundwater contour map will be developed using the survey data. Field parameters (e.g., pH, dissolved oxygen, oxidation-reduction potential [ORP], etc.) will also be collected using a water quality meter during purging and prior to sampling. Each groundwater sample will be analyzed for TCL + 30/TAL and ECs list of analytes including total and dissolved metals.

4.3 Soil Vapor Sampling

To evaluate soil vapor and the potential for soil vapor intrusion (SVI) into the proposed building, Roux will install four soil vapor points (RX-06 through RX-09) in converted soil boring locations by hand or by using a Geoprobe® direct-push rig. One soil vapor sample will be collected from each point for a total of four samples (not including QA/QC). New Teflon®-lined tubing will be attached to an expendable soil vapor sampling point with a 6-inch stainless steel screen. The soil vapor points will be backfilled with #2 Morie sand to approximately one foot above the screen. The remainder of the borehole will be backfilled with a concrete/bentonite slurry to grade.

In accordance with the NYSDOH Guidance for Evaluating SVI, the integrity of each soil vapor sampling point seal will be checked following installation to verify that the soil vapor sample will not be compromised by inadvertent introduction of ambient air into the sample. The soil vapor samples will be collected using pre-cleaned (batch certified) 6-liter summa canisters with regulators calibrated to collect samples over a 2-hour period and analyzed using USEPA Method TO-15 for VOCs.

5. Field Sampling Procedures

This section provides a detailed discussion of the field procedures to be used during sampling of the various media being evaluated as part of the RI (i.e., soil, groundwater, and soil vapor). As discussed, the sample locations are shown on Figure 1. Additional details regarding sampling procedures and protocols are described in Roux's relevant Standard Operation Procedures (SOPs), which are provided in Attachment 3.

5.1 Soil Sampling

At each borehole location utility clearance will be performed prior to advancement of soil borings using hand tools and/or vacuum excavation to a minimum of 5 ft bls at each location to confirm that no subsurface utilities were present. Should a utility or other feature be observed during pre-clearance activities, the sampling location will be relocated.

Soil borings will be advanced using a Geoprobe direct-push drill rig. Samples of the soil profile will be collected continuously from land surface to a maximum depth of approximately 10 feet below the water table for borings with co-located groundwater monitoring wells or 10 ft bls for borings with co-located soil vapor points.

The soil from each five-foot interval will be observed for lithology and evidence of contamination (e.g., staining, odors, and/or visible free product) and placed immediately thereafter into large plastic Ziploc® bags or equivalent for recording headspace using a PID. After a minimum of 15 minutes for equilibration with the headspace in the plastic bag, each sample will be screened for organic vapors using a PID equipped with a 10.6 eV lamp. Samples for possible VOC analysis will be placed in a laboratory-supplied jar or encore sampler prior to screening, due to the potential for loss of VOCs through volatilization. Soil samples will be collected at depths described in Section 4. As part of the RI, 24 soil samples will be collected. Additional samples may be collected if odor/ visual evidence of contamination is observed. Samples will be placed in the laboratory-supplied containers and shipped to the laboratory under chain of custody procedures in accordance with Roux's SOPs in Attachment 3.

Soil samples will also be analyzed for the NYSDEC-required ECs. Additional necessary precautions will be taken when sampling for ECs in the field including, but not limited to:

- Using the proper field clothing or personal protective equipment (i.e., no materials will contain Gore-Tex or Tyvek);
- Avoid using sampling equipment components/containers making contact with aluminum foil, low density polyethylene (LDPE), glass, or polytetrafluoroethylene materials;
- Following PFAS field sampling guidelines (i.e., using sampling materials made from high density polyethylene [HDPE], silicon, or stainless steel and avoid using equipment containing Teflon and using sharpies, permanent markers, adhesives, and waterproof/plastic clipboards and notebooks); and
- Utilizing regular ice for sample preservation and only "PFAS-free" water and Alconox for decontamination.

Contaminated soil cuttings, if encountered, will be placed in sealed and labeled U.S. Department of Transportation (DOT) approved 55-gallon drums pending characterization and off-Site disposal at a permitted facility.

5.2 Groundwater Sampling

Prior to sampling, depth to water will be measured at each well using an electronic water level meter with an accuracy of +/ 0.01 feet. All wells will then be purged and sampled consistent with USEPA low-flow sampling requirements. Field parameters (i.e., pH, dissolved oxygen, ORP, etc., as described in the USEPA low-flow sampling requirements) will be collected using a water quality meter with flow-through cell until parameters stabilize before samples are collected. Five groundwater samples will be collected as part of the RI. Samples will be analyzed for TCL + 30/TAL and ECs including total and dissolved metals as shown on Table 2.

Monitoring wells will also be analyzed for same parameters listed in Section 4.1. Similarly to the collection of soil samples for ECs, additional necessary precautions will be taken when groundwater sampling for ECs in the field including, but not limited to:

- Using the proper field clothing or personal protective equipment (i.e., no materials will contain Gore-Tex or Tyvek);
- Avoid using sampling equipment components/containers making contact with aluminum foil, low density polyethylene (LDPE), glass, or polytetrafluoroethylene materials;
- Following PFAS field sampling guidelines (i.e., using sampling materials made from high density polyethylene [HDPE], silicon, or stainless steel and avoid using equipment containing Teflon and using sharpies, permanent markers, adhesives, and waterproof/plastic clipboards and notebooks); and
- Utilizing regular ice for sample preservation and only “PFAS-free” water and Alconox for decontamination.

All groundwater samples will be collected and placed in the laboratory-supplied containers and shipped to the laboratory under chain of custody procedures in accordance with Roux’s field sampling SOPs included as Attachment 3.

5.3 Soil Vapor Sampling

The soil vapor samples will be collected from two feet above the water table. New Teflon® lined tubing will be attached to an expendable soil vapor sampling point with a 6-inch stainless steel screen inside the rods, to prevent infiltration of ambient air. The soil vapor points will be backfilled with #2 Morie sand to approximately one foot above the screen. The remainder of the borehole will be backfilled with a cement/bentonite slurry to grade.

Four soil vapor samples will be collected during the RI. Prior to sample collection, the Teflon®-lined tubing will be purged of approximately two volumes of the tubing using a vacuum pump set at a rate of 0.2 liters per minute. A tracer gas (i.e., helium) will be used to enrich the atmosphere in the immediate vicinity of the sampling location in order to test the borehole seal and verify that ambient air is not being drawn into the sample in accordance with the procedures outlined in the NYSDOH Guidance. Following purging and verification with the tracer gas, the tubing will be connected to the pre-cleaned (batch-certified) laboratory supplied summa canister. All soil vapor samples will be collected using the canisters with regulators calibrated to collect samples over a 2-hour period and analyzed using USEPA Method TO-15 for VOCs.

6. Sample Handling and Analysis

To ensure quality data acquisition and collection of representative samples, there are selective procedures to minimize sample degradation or contamination. These include procedures for preservation of the samples, as well as sample packaging, shipping procedures, and QA/QC.

6.1 Field Sample Handling

A discussion of the proposed number and types of samples to be collected during each task, as well as the analyses to be performed, can be found in Section 4 of this QAPP/FSP. The types of containers, volumes, and preservation techniques for the aforementioned testing parameters are presented in Table 4.

6.2 Sample Custody Documentation

The purpose of documenting sample custody is to ensure that the integrity and handling of the samples is not subject to question. Sample custody will be maintained from the point of sampling through the analysis (and return of unused sample portion, if applicable).

Each individual collecting samples is personally responsible for the care and custody of the samples. All sample labels should be preprinted or filled out using waterproof ink. The technical staff will review all field activities with the Field Team Leader to determine whether proper custody procedures were followed during the field work and to decide if additional samples are required.

All samples being shipped off-Site for analysis must be accompanied by a properly completed chain of custody form. The sample numbers will be listed on the chain of custody form. When transferring the possession of samples, individuals relinquishing and receiving will sign, date, and note the time on the record. This record documents transfer of custody of samples from the sampler to another person, to/from a secure storage area, and to the laboratory.

Samples will be packaged for transfer and dispatched to the appropriate laboratory for analysis with a separate signed custody record enclosed in each sample box or cooler. The preferred method of transfer to the laboratory is for a courier to pick up samples and deliver them to the laboratory with a vehicle. Shipping containers, if needed, will be locked and/or secured with strapping tape in at least two locations for shipment to the laboratory.

6.3 Sample Shipment

Samples are typically picked up from the Stie and delivered to the laboratory by courier service. If sample shipment is necessary, sample packaging and shipping procedures are based upon USEPA specifications, as well as DOT regulations. The procedures vary according to potential sample analytes, concentration, and matrix and are designed to provide optimum protection for the samples and the public. Sample packaging and shipment must be performed using the general outline described below.

All samples will be shipped within 24 hours of collection and will be preserved appropriately from the time of sample collection. A description of the sample packing and shipping procedures is presented below:

1. Prepare cooler(s) for shipment:
    - tape drain(s) of cooler shut;

- affix “This Side Up” arrow labels and “Fragile” labels on each cooler; and
- place mailing label with laboratory address on top of cooler(s).

2. Arrange sample containers in groups by sample number.
3. Ensure that all bottle labels are completed correctly. Place clear tape over bottle labels to prevent moisture accumulation from causing the label to peel off.
4. Arrange containers in front of assigned coolers.
5. Place packaging material approximately at the bottom of the cooler to act as a cushion for the sample containers.
6. Arrange containers in the cooler so that they are not in contact with the cooler or other samples.
7. Fill remaining spaces with packaging material.
8. Ensure all containers are firmly packed in packaging material.
9. If ice is required to preserve the samples, ice cubes should be repackaged in Ziploc® bags and placed on top of the packaging material.
10. Sign chain of custody form (or obtain signature) and indicate the time and date it was relinquished to courier as appropriate.
11. Separate chain of custody forms. Seal proper copies within a large Ziploc® bag and tape to inside cover of cooler. Retain copies of all forms.
12. Close lid and latch.
13. Secure each cooler using custody seals.
14. Tape cooler shut on both ends.
15. Relinquish to overnight delivery service as appropriate. Retain air bill receipt for project records. (Note: All samples will be shipped for “NEXT A.M.” delivery).

6.4 Quality Assurance/Quality Control

The primary intended use for the RI data is to characterize Site conditions, determine BCP eligibility, and aid in the preparation of the RAWP. The primary DQO of the soil, groundwater, and soil vapor programs, therefore, is that data be accurate and precise, and hence representative of the actual Site conditions. Accuracy refers to the ability of the laboratory to obtain a true value (i.e., compared to a standard) and is assessed through the use of laboratory QC samples, including laboratory control samples and matrix spike samples, as well as through the use of surrogates, which are compounds not typically found in the environment that are injected into the samples prior to analysis. Precision refers to the ability to replicate a value and is assessed through both field and laboratory duplicate samples.

Sensitivity is also a critical issue in generating representative data. Laboratory equipment must be of sufficient sensitivity to detect target compounds and analytes at levels below NYSDEC standards and guidelines whenever possible. Equipment sensitivity can be decreased by field or laboratory contamination of samples, and by sample matrix effects. Assessment of instrument sensitivity is performed through the analysis of reagent blanks, near-detection-limit standards, and response factors. Potential field and/or laboratory contamination is assessed through use of trip blanks, method blanks, and equipment rinse blanks (also called “field blanks”). A laboratory SOP for analysis of PFAS is included in Attachment 2.

Table 1 lists the requirements for field and laboratory QC samples that will be analyzed to assess data accuracy and precision, as well as to determine if equipment sensitivity has been compromised. Table 2

lists the number/type of field and QA/QC samples that will be collected during the RI. Table 4 lists the preservation, holding times and sample container information.

All RI “assessment” analyses (i.e., TCL plus 30/ TAL and TO-15) will be performed in accordance with the NYSDEC Analytical Services Protocol (ASP), using USEPA SW 846 methods.

All laboratory data are to be reported in NYSDEC ASP Category B deliverables and will be delivered to NYSDEC in electronic data deliverable (EDD) format as described on NYSDEC’s website (http://www.dec.ny.gov/chemical/62440.html). A Data Usability Summary Report (DUSR) will be prepared meeting the requirements in Section 2.2(a)1.ii and Appendix 2B of DER-10 for all data packages generated for the RI. Judy Harry of Data Validation Services will review the analytical data for quality assurance and quality control in accordance with NYSDEC standards. The professional profile for Judy Harry is provided in Attachment 1.

7. Site Control Procedures

Site control procedures, including decontamination and waste handling and disposal, are discussed below. Site control procedures have been developed to minimize both the risk of exposure to contamination and the spread of contamination during field activities at the Site. All personnel who come into designated work areas, including contractors and observers, will be required to adhere strictly to the conditions imposed herein and to the provisions of a Site-Specific Health and Safety Plan (HASP). The HASP is included as Appendix D to the RIWP.

7.1 Decontamination

In an attempt to avoid the spread of contamination, all drilling and sampling equipment must be decontaminated at a reasonable frequency in a properly designed and located decontamination area. Detailed procedures for the decontamination of field and sampling equipment are included in Roux's SOPs for the Decontamination of Field Equipment located in Attachment 3. The location of the decontamination area will be determined prior to the start of field operations. The decontamination area will be constructed to ensure that all wash water generated during decontamination can be collected and containerized for proper disposal. Only "PFAS-free" water will be used for decontamination of sample equipment on-Site. Only Alconox will be used as decontamination detergent (Liquinox shall not be used).

7.2 Waste Handling and Disposal

All waste materials (drill cuttings, monitoring well development purge water, decontamination water, etc.) generated during the RI will be consolidated, and stored in appropriately labeled bulk containers (drums, etc.), and temporarily staged at an investigation derived waste storage area on-Site. Roux will then coordinate waste characterization and disposal by appropriate means.

TABLES

1. Field and Laboratory QC Summary
2. Remedial Investigation Sampling Summary
3. Remedial Investigation Boring Matrix
4. Preservation, Holding Times, and Sample Containers

Table 1. Field and Laboratory QC Summary

QC Check Type	Minimum Frequency	Use
Field QC		
Duplicate	1 per matrix per 20 samples or SDG*	Precision
Trip Blank	1 per VOC cooler	Sensitivity
Field Blank	1 per matrix per 20 samples, 1 per day when sampling for PFAS	Sensitivity
Equipment Blank	1 per day when sampling for PFAS	Sensitivity
Laboratory QC		
Laboratory Control Sample	1 per matrix per SDG	Accuracy
Matrix Spike/Matrix Spike Duplicate/Matrix Duplicat	1 per matrix per SDG	Accuracy/Precision
Surrogate Spike	All organics samples	Accuracy
Laboratory Duplicate	1 per matrix per SDG	Precision
Method Blank	1 per matrix per SDG	Sensitivity

* SDG - Sample Delivery Group - Assumes a single extraction or preparation
** Provided to lab by field sampling personnel
PFAS - Per- and Polyfluoroalkyl Substances

Table 2. Remedial Investigation Sampling Summary

Sample Medium	Target Analytes	Field Samples	Duplicates[1]	Trip Blanks[2]	Field Blanks[1]	Equipment Blanks[3]	Matrix Spikes[1]	Spike Duplicates[1]	Total No. of Samples
Soil	TCL VOCs +10	24	2	6	2	-	2	2	38
	TCL SVOCs +20	24	2	-	2	-	2	2	32
	TAL Metals	24	2	-	2	-	2	2	32
	Mercury	24	2	-	2	-	2	2	32
	PCBs	24	2	-	2	-	2	2	32
	Herbicides	24	2	-	2	-	2	2	32
	Pesticides	24	2	-	2	-	2	2	32
	PFAS	24	2	-	2	-	2	2	32
	1,4-Dioxane	24	2	-	2	-	2	2	32
	Total Cyanide	24	2	-	2	-	2	2	32
	Hexavalent Chromium	24	2	-	2	-	2	2	32
Groundwater	TCL VOCs +10	5	1	1	1	-	1	1	10
	TCL SVOCs +20	5	1	-	1	-	1	1	9
	TAL Metals (Total)	5	1	-	1	-	1	1	9
	TAL Metals (Dissolved)	5	1	-	1	-	1	1	9
	Mercury	5	1	-	1	-	1	1	9
	PCBs	5	1	-	1	-	1	1	9
	Herbicides	5	1	-	1	-	1	1	9
	Pesticides	5	1	-	1	-	1	1	9
	PFAS	5	1	-	1	1	1	1	10
	1,4-Dioxane	5	1	-	1	-	1	1	9
	Total Cyanide	5	1	-	1	-	1	1	9
	Hexavalent Chromium	5	1	-	1	-	1	1	9
Soil Vapor	TO-15 VOCs	4	1	-	-	-	-	-	5

Totals are estimated based on scope of work as written, actual sample quantities may vary based on field conditions. QA/QC sample quantities will be adjusted accordingly.

[1] Based on 1 per 20 samples

[2] Based on 1 cooler per day

[3] Based on 1 per day PFAS sampling occurs

TCL - USEPA Contract Laboratory Program Target Compound List

TAL - USEPA Contract Laboratory Program Target Analyte List

USEPA - United States Environmental Protection Agency

VOCs - Volatile Organic Compounds

SVOCs - Semivolatile Organic Compounds

PCBs - Polychlorinated Biphenyls

PFAS - Per- and Polyfluoroalkyl Substances

Table 3. Remedial Investigation Boring Matrix

Sample Location ID	Soil Boring/Sampling	Groundwater Monitoring Well Installation/Sampling	Soil Vapor Point Installation/Sampling
RX-01	X	X	-
RX-02	X	X	-
RX-03	X	X	-
RX-04	X	X	-
RX-05	X	X	-
RX-06	X	-	X
RX-07	X	-	X
RX-08	X	-	X
RX-09	X	-	X
RX-10	X	-	-
RX-11	X	-	-
RX-12	X	-	-

Table 4. Preservation, Holding Times and Sample Containers

Analysis	Matrix	Bottle Type	Preservation(a)	Holding Time(b)
TAL Metals (total & dissolved) SW-846 6020B/7471B	Soil Water	8 oz wide mouth glass, teflon lined cap 250 mL plastic, teflon lined cap	Cool to 4°C Nitric acid	180 days, Hg 28 days
Mercury SW-846 7470A	Soil Water	5 gram Plastic 250 mL Plastic	Cool to 4°C Nitric acid	28 days from sample collection 28 days from sample collection
Hexavalent Chromium\Trivalent Chromium(calculate SW-846 7196A\6010C	Soil Water	2 oz wide mouth glass, teflon lined cap 500 mL Plastic	None	180 days 24 hours from sample collection
Total Cyanide SW-846 9012B	Soil Water	4 oz wide mouth glass, teflon lined cap 250 mL Plastic	Cool to 4°C NaOH	14 days from sample collection 14 days from sample collection
1,4-Dioxane SW-846 8270D GS/MS SIM/Isotope Dilution	Soil Water	8 oz wide mouth glass, teflon lined cap 2 x 500 mL amber wide mouth glass	Cool to 4°C Cool to 4°C	14 days from sample collection 7 days from sample collection
Per- and Polyfluoroalkyl Substances (PFAS) EPA 1633	Soil Water	8 oz plastic container (non teflon lined) 2 - 250 mL plastic	Cool to 4°C Trizma	28 days from sample collection 14 days from sample collection
Volatile Organic Compounds (VOCs) TO-15	Air	6 liter Summa Canister for 2-hr sampling	None	14 days from sample collection
Target Compound List (TCL)				
TCL Volatile Organic Compounds (VOCs) + 10 TICS SW-846 8260C	Soil Water	Encore 40mL voa vial, teflon lined cap	Cool to 4°C Hydrochloric Acid	24 hours from sample collection 14 days from sample collection
TCL Semivolatile Organic Compounds (SVOCs) +20 SW-846 8270D	Soil Water	8 oz wide mouth glass, teflon lined cap 1 liter amber glass, teflon lined cap	Cool to 4°C	14 days to extract, 40 days to analysis 7 days to extract, 40 days to analysis
TCL Polychlorinated biphenyls (PCBs) SW-846 8082A	Soil Water	8 oz wide mouth glass, teflon lined cap 1 liter amber glass, teflon lined cap	Cool to 4°C	14 days to extract, 40 days to analysis 7 days to extract, 40 days to analysis
TCL Pesticides SW-846 8081	Soil Water	4 oz wide mouth glass, teflon lined cap 2 x 8 oz amber glass or plastic, teflon lin	Cool to 6°C Cool to 6°C	14 days to extract, 40 days to analysis 7 days to extract, 40 days to analysis

(a) All soil and groundwater samples to be preserved in ice during collection and transport

(b) Days from date of sample collection.

TAL - Target Analyte List

TCL - USEPA Contract Laboratory Program Target Compound List

Gas chromatography-mass spectrometry (GC/MS) in selected ion monitoring (SIM) mode

FIGURES

1. Proposed Sample Locations



LEGEND

- SITE BOUNDARY
- LSB–1 — PREVIOUS SOIL BORING LOCATION
- LSB–2/LMW–1 — PREVIOUS SOIL BORING/MONITORING WELL LOCATION
- LSV–1 — PREVIOUS SOIL VAPOR POINT LOCATION
- RX–10 — LOCATION OF PROPOSED SOIL BORING
- RW–1 — LOCATION OF PROPOSED SOIL BORING AND GROUNDWATER MONITORING WELL
- RX–6 — LOCATION OF PROPOSED SOIL BORING AND SOIL VAPOR POINT

N

40’ 0 40’

Title:

PROPOSED SAMPLE LOCATIONS

BCP SITE NO. C224422
213 MEADOW STREET, BROOKLYN, NEW YORK

Prepared for:

GO QUAY, LLC

ROUX

Compiled by: T.B.	Date: 4/17/2026	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	1
Project Mgr: L.C.	Project: 3084.0003Y000	
File: 3084.0003Y102.01.DWG		

V:\CAD\PROJECTS\3084Y\0003Y\100\13084.0003Y1001.01.DWG GMILTON

ATTACHMENTS

1. Professional Profiles
2. Laboratory's Standard Operating Procedures
3. Roux's Standard Operating Procedures
4. NYSDEC PFAS Sampling Guidance

ATTACHMENT 1

Professional Profiles

PROFESSIONAL PROFILE



CONTACT INFORMATION
Main: (631) 232-2600
Direct: (631) 630-2395
Email: jtaylor@rouxinc.com
Website: www.rouxinc.com

209 Shafter Street
Islandia, NY 11749

EDUCATION
BS, Geology, Binghamton University, 2005

PROFESSIONAL LICENSES
Professional Geologist, New York, 2017

Jessica L. Taylor, PG

Principal Hydrogeologist

EXPERIENCE SUMMARY
Nineteen years of experience: Principal, Senior, Project, and Staff Hydrogeologist, Roux, Islandia, New York; Staff Hydrogeologist and Intern at GSC | Kleinfelder.

TECHNICAL SPECIALTIES
Project Management and Field Management for large-scale soil excavation and remediation projects, including site assessment, remediation implementation, and construction activities. Negotiation with NYSDEC Brownfield Clean-up Program (BCP) and NYCOER E-Designation/Voluntary Clean-up Program. Coordination and management of large-scale demolition and renovation support. Performance of sampling and direction of field sampling teams for the following media: soil, groundwater, surface water, soil vapor, sludge, and sediment. Soil characterization, coordination with construction management teams, disposal brokers, and facilities for cost-effective disposal of contaminated and clean soils from complex, large-scale projects.

REPRESENTATIVE PROJECTS

- **Project Principal, Remediation of two Parcels as part of the NYSDEC Brownfield Cleanup Program, Inwood, Manhattan, New York.** This project included due diligence environmental assessment and investigation of a former grocery store and retail gasoline filling station/auto repair, development of NYSDEC-approved Remedial Investigation Work Plan and Remedial Action Work Plan, and remediation during construction an affordable housing development. Acted on behalf of developer to provide soil classification data and vet disposal facilities and manage registration and disposal of unknown USTs.
- **Project Principal, Large Redevelopment Project including Four Buildings with NYCOER E-Designations for Hazardous Materials, Brooklyn, New York.** The project encompasses 22 acres including the Barclays Center. Project responsibilities include coordination and oversight of in situ waste characterization sampling, excavation, and proper disposal of 500,000 CY of soil. Included sampling, classification, and coordination with construction managers and soil disposal facilities for disposal of soil impacted by petroleum contamination and TCLP hazardous levels of lead and corrosivity. Designed soil delineation sampling programs to limit boundaries of more contaminated soils to reduce disposal costs. Responsible for implementing and managing remediation work at several NYSDEC spill sites within the project footprint, including in situ chemical oxidation, UST removal, and soil excavation. Agency support for NYSDEC, NYCDEP, NYCOER, MTA (LIRR/NYCT), and ESDC.
- **Project Principal Providing Technical Guidance to Construction Management Team during the Excavation of NYSDEC Brownfield Cleanup Program Project, Yonkers, New York.** Coordinated with development team, their consultant, soil brokers, and disposal facilities to determine appropriate facilities and manage costs during disposal of approximately 30,000 tons of soil contaminated with TCSA-level PCBs, hazardous lead, and elevated VOCs triggering UHCs.
- **Project Principal, Remediation of Two Parcels as part of the NYSDEC Brownfield Cleanup Program, Hunter's Point South, Queens, New York.** This project included due diligence environmental assessment and investigation, development of NYSDEC-approved Remedial Investigation Work Plan and Remedial Action Work Plan, and remediation during construction of two mixed-use, affordable housing developments. Acted on behalf of developer to evaluate Change Order Request by contractor for disposal of soil with elevated PAHs and hazardous levels of lead. Designed delineation sampling program to limit costs associated with disposal of contaminated soil.

- **Project Principal, Remediation of a 0.66-acre Parcel in as part of a NYSDEC Brownfield Cleanup Program, Brooklyn, New York.** This project included due diligence environmental assessment and investigation, development of NYSDEC-approved RIWP and RAWP including an active sub-slab depressurization system, and remediation during construction of mixed- use affordable housing developments including full cellar. Also required coordination with NYCHPD and NYCDEP to meet regulatory requirements for funding. Continued support during the Site Management phase includes preparation of Periodic Review Reports and quarterly sampling and monitoring of an active sub-slab depressurization system.
- **Project Principal, Management of NYCOER E-Designation for Hazardous Materials during Excavation and Construction of a Hotel/Residential Building, Manhattanville, New York.** Responsibilities included negotiation with NYCOER to limit additional sampling required for Remedial Investigation, and soil management including performing in situ waste characterization, coordination with soil brokers, and oversight of disposal of 16,000 CY of soil.
- **Project Principal, Real Estate Acquisition Due Diligence for Industrial Properties, Queens and The Bronx, New York.** Prepared Phase I ESAs and designed and implemented Phase II ESAs to meet financing requirements while coordinating with selling parties. Provided technical and strategic support, including remedial cost estimates during short due diligence periods.
- **Project Principal, Redevelopment of Four Properties for a Supportive Housing Development with NYCOER to Address NYCDEP E-Designations, Brooklyn, New York.** Coordination with NYCOER to implement remedial investigation and develop RAP as part of the NYC VCP.
- **Senior Project Manager, Environmental Management of Asbestos Remediation during the Renovation of Nassau Coliseum, Uniondale, New York.** Responsible for coordinating inspections and delineation of ACM, preparing budgetary estimates, and bid support for full abatement. Also includes management of decommissioning and replacement of existing emergency generator UST.
- **Project Manager, Commercial Redevelopment Site, The Bronx.** Project work includes in situ waste characterization, management and coordination of excavation, community air monitoring, and development of NYCDEP-approved RAP.
- **Client Liaison and Full-time On-site Construction Manager, Redevelopment Site, Rego Park, New York.** Collection of 500 in situ waste characterization soil samples, oversight of 250,000 cubic yards of soil excavation and remediation, development of post-remediation sampling plan, and organization of waste manifests and hazardous waste documents to ensure proper disposal. Coordination of daily site activities with multiple construction contractors and other involved parties on behalf of client. Oversight and confirmatory soil sampling for on-site treatment of 75,000 cubic yards of hazardous lead-contaminated soil.
- **Project and Field Manager, Phase I and Phase II ESAs on a Portfolio of Retail Gasoline Stations, New York and New Jersey.** Responsibilities included drilling and sampling oversight and health and safety management, as well as writing Phase II ESA reports for over 40 sites.
- **Field Manager, Remediation System Installation, Brooklyn, New York.** Responsibilities included daily oversight of contractors excavating soil and installing piping within streets and sidewalks. Ensured compliance with client-specific Health and Safety Completed daily health and safety meeting and reports and attended weekly construction progress meetings.
- **Field Manager, Quarterly Groundwater Sampling Rounds at a Former Pesticides Manufacturing Facility, Dayton, New Jersey.** Responsibilities include direction of multiple sampling teams and coordination with subcontractors.
- **Field Manager, Site Investigation Activities at a Redevelopment Site, Staten Island, New York.** Responsible for oversight of subcontractor performing soil borings and soil and groundwater sampling.
- **Field Manager, Groundwater Monitoring Rounds at Former Oil and Fuel Distribution Terminals, Staten Island, Westchester, Glen Cove, and Oceanside, New York.** Activities include system operations and maintenance, supervision of multiple field personnel, performing water levels gauging, and collection of groundwater samples from site monitoring wells using a variety of equipment.
- **Field Manager, Site Investigation at a Former Chemical Manufacturer, Brooklyn, New York.** Responsibilities included oversight of subcontractor installation of monitoring wells, collection of soil and groundwater samples, and logging soil lithology.
- **Field Manager, Annual Groundwater Sampling at a Chemical Manufacturing Superfund Site, Delaware.** Involves the oversight and supervision of multiple teams of personnel for a weeklong gauging and sampling round.
- **Field Manager, Underground Storage Tank Closure, Queens, New York.** Provided health and safety supervision, collection of soil and groundwater samples, and oversight of subcontractor closure activities on behalf of client.
- **Field Manager, Long-term Remediation Project for the City of New York.** Includes quarterly groundwater sampling and soil vapor sampling as part of an NYSDEC-approved work plan, as well as oversight of soil sampling as part of subsurface investigations. Creation of tables and figures based on investigation results and as part of periodic reports submitted to NYSDEC.

- **Field Manager, Off-site Investigation at a Former Chemical Production Facility in Rensselaer, New York.** Investigation included the installation of piezometers, monitoring wells, and soil gas and environmental health and safety oversight.
- **Project and Field Manager, Implementation of a Phase II ESA Large Ongoing Redevelopment Project, New York.** Responsibilities included coordination and oversight of drilling, sampling, and excavation of soil. Drilling methods included sonic rotary, Geoprobe, hollow-stem auger, and air hammer/split spoon sampling. Includes oversight of Phase II ESA and waste characterization activities, coordination with laboratory contacts, as well as synthesis of lithology logs for over 100 soil borings. Project includes completion of Phase II ESAs (sampling of soil, groundwater, and soil gas) for over 50 properties.
- **Project and Field Manager, Brooklyn, New York.** Responsible for implementing and managing remediation work at several NYSDEC spill sites within the footprint of a large redevelopment project. Responsibilities included management and oversight of in situ chemical oxidation for treatment of petroleum-impacted groundwater.
- **Field Manager, Redevelopment Site, New Jersey.** Collection of waste characterization soil samples, post excavation confirmatory sampling, and groundwater off-site discharge sampling.

PROFESSIONAL TRAININGS

OSHA 40-Hour HAZWOPER Training, 2005

OSHA 10-Hour Construction Safety Training, 2008

PROFESSIONAL PROFILE



CONTACT INFORMATION
Main: (631) 232-2600
Direct: (631) 630-2371
Email: lcurnutte@rouxinc.com
Website: www.rouxinc.com

209 Shafter Street
Islandia, NY 11749

EDUCATION
BS, Marine Science, Coastal Carolina University, 2011
MS, Environmental Studies, College of Charleston, 2013

Levi Curnutte

Senior Scientist I

EXPERIENCE SUMMARY
Twelve years of experience: Staff Scientist, Project Scientist, and Senior Scientist I at Roux, Islandia, New York.

TECHNICAL SPECIALTIES
Design, implementation, and management of remedial investigations and remedial actions for real estate and industrial sites in regulatory programs, including the New York State Department of Environmental Conservation (NYSDEC) Brownfields Cleanup Program (BCP), New York City Office of Environmental Remediation (NYCOER) E-Designation and Voluntary Cleanup Programs, New York City Department of Environmental Protection (NYCDEP), and New York State Spills Program; management of due diligence Phase I & II Environmental Site Assessments; and management of large-scale soil excavation projects including soil waste characterization implementation and construction, located primarily in the tri-state and surrounding areas. Additional technical skills include waterproofing, vapor barrier, sub-slab ventilation system installation inspections.

REPRESENTATIVE PROJECTS

- Project Manager for a large ongoing redevelopment project in Brooklyn, New York, including the Barclay's Center and the relocation of a nine-acre 100 year-old active rail yard. Project includes management of four buildings with NYCDEP "E" designations and the implementation of Remedial Action Work Plans (RAWPs), *in situ* soil characterization sampling, non-hazardous soil disposal, underground storage tank (UST) removals and NYSDEC spill remediation at multiple sites, and Site Management Plan (SMP) O&M task implementation. Achieved an NYCOER Notice of Satisfactions for all four properties. Agency support for NYSDEC, NYCDEP, NYCOER, MTA (LIRR/NYCT), and ESDC.

- Project Manager providing support for all soil and groundwater disturbances during development of a large 12.5-acre college campus located on Roosevelt Island, New York, New York. Management tasks include Agency support for NYCDEP and NYSDEC, CAMP and SWPPP implementation, soil characterization for reuse and disposal, UST removal adhering to NYSDEC regulations, asbestos abatement coordination, and submission of a NYCDEP Remedial Closure Report. Received NYCDEP letters of completion for all remedial activity requirements set forth for the site.

- Project Manager for remediation of a 1-acre parcel in the Sunset Park section of Brooklyn, New York. Site was issued RCRA Consent Decree violations and entered the NYSDEC BCP to satisfy violations and remediation requirements. This project included preparation of BCP Application submission, robust due-diligence environmental assessment and investigation, and development of NYSDEC-approved Remedial Investigation, Interim Remedial Measures, and Remedial Action Work Plans as well as Beneficial Use Determination (BUD) Application. Remedial actions included removal of hazardous and non-hazardous waste, *in situ* chemical oxidation (ISCO) application for groundwater remediation, and UST removal and NYSDEC spill remediation. Redevelopment will feature construction of office space and a large parking garage for use as commercial vehicle fleet storage and maintenance.

- Project Manager for on-going SMP O&M tasks and Field Manager for RAWP implementation at a NYSDEC BCP site in the Williamsburg neighborhood of Brooklyn, New York, completing extensive remediation of chlorinated VOC-impacted soil and groundwater to accommodate development of a mix-used building and underground parking garage. Primary contaminants of concern were PCE and TCE. Project responsibilities include management of zero-valent iron injections (ZVI) for a permeable reactive barrier (PRB), installation of SSDS,

waterproofing/vapor barrier inspections, groundwater monitoring and sampling, CAMP, coordination and tracking of hazardous and non-hazardous waste, and providing contractor work zone health and safety recommendations/oversight in accordance with OSHA guidance. Key contributor in the submissions of the Periodic, Annual, and Final Engineering Reports submitted to NYSDEC leading to Certificate of Completion. Project received by the NYC Brownfield Partnership's 2017 Big Apple Brownfield Award for Innovation. Project lead for maintaining compliance with ongoing SMP O&M and reporting requirements.

- Project Manager for remediation of two parcels in Queens, New York as part of NYSDEC BCP containing petroleum compounds and hazardous concentrations of heavy metals. This project included preparation of BCP Application submission, due-diligence environmental assessment and investigation, in situ waste characterization design and implementation, development of NYSDEC-approved Remedial Investigation Work Plans and RAWPs, and future remediation during construction of two mixed-use, affordable housing developments. Also required coordination with NYCHPD and NYCDEP to meet regulatory requirements for funding.
- Project Manager for an affordable housing redevelopment site in NYSDEC BCP in Brooklyn, New York also under NYCDEP oversight. The Site was formally used by Brooklyn Water Works and an automobile repair facility and contaminants of concern are petroleum compounds in soil and chlorinated solvents in soil gas. Project management roles include BCP Application submission, due-diligence assessment, and investigation activities, in situ waste characterization design and implementation, development of NYCDEP- and NYSDEC-approved Remedial Investigation and Remedial Action Work Plans. A conditional Track 1 Cleanup was completed for the site.
- Project Manager for former Manufactured Gas Plant (MGP) site in Gowanus neighborhood of Brooklyn, New York. Under NYSDEC regulation, O&M responsibilities include coordination of monitoring of recovery wells known to be former and current producers of coal tar (DNAPL) and DNAPL recovery and disposal and associated reporting.
- Project Manager for an 85-acre commercial site within the NYCOER Voluntary Cleanup Program (VCP) undergoing a 500K sq. ft. mall expansion. Project involved the construction of an adjacent building to the existing mall and a new above-grade parking structure. Manager for RAWP implementation and production of multiple Remedial Action Reports leading to two NYCOER Notices of Satisfactions for the client to date.
- Project Manager for six separate sites with NYCDEP "E" designations that are part of a large 21-acre affordable redevelopment project in Brownsville neighborhood of Brooklyn, New York. All sites are under NYCOER regulation with one site enrolled in the VCP. Project management includes NYCOER enrollment, design and implementation of remedial investigations and assessments, design, and implementation of Remedial Action Work Plans, in situ soil characterization sampling and soil removal (including hazardous soil), opening of a NYSDEC Spill and closure, and UST removal adhering to NYSDEC regulations. To date, NYCOER Notices of Satisfaction have been obtained for three of the sites.
- Project Manager for remedial investigation of a previously abandoned oil-water separator located at a NYSDEC-regulated 175-acre former petroleum refinery and terminal in Brooklyn, New York to delineate residual contamination. Responsibilities included the management of all field tasks, site management, property owner and tenant coordination, and investigation report.
- Project Manager for ongoing long-term O&M support and Field Manager for RAWP implementation at a NYSDEC BCP site in the Brownsville neighborhood of Brooklyn, New York. Previous use as a dry cleaner left residual contamination of PCE and TCE in soil and groundwater. Field management of remediation of chlorinated VOC-impacted soil and groundwater including source excavation and tracking of hazardous and non-hazardous waste, potassium permanganate (KMnO4) injections for groundwater treatment, installation of soil vapor extraction wells, groundwater monitoring and sampling, and CAMP.
- Field Manager of subset of field operations for a large scale, high profile investigation of 500 residential and sensitive-use properties located throughout Los Angeles County. As a result of lengthy aerial depositions of emissions originating from a former battery recycling facility in Vernon, California, soil was analyzed in situ for lead contamination on a real-time basis through the use of X-ray fluorescence (XRF) instruments. Helped coordinate and perform the rapid assessment of soils by multiple teams while under heavy scrutiny by the press, regulators, and homeowners.

PROFESSIONAL TRAININGS

OSHA 40-hour HAZWOPER Training

OSHA NYC Site Safety Training (SST) Certified

OSHA 8-hour HAZWOPER Refresher Training, Certificate Current

NYCOER Gold Certified Professional

PUBLICATIONS

Climate Change and Bemisia tabaci (Hemiptera: Aleyrodidae): Impacts of Temperature and Carbon Dioxide on Life History. Curnutte, L., Simmons, A. M., and S. Abd-Rabou. Ann. Ent. Soc. Amer. 107(5): 933-943. 2014.

JUDY V. HARRY
P. O. Box 208
120 Cobble Creek Rd.
North Creek, NY 12853

Occupation: Data Validator/Environmental Technical Consultant

Years Experience: 45

Education: B.S., Chemistry, Magna cum laude, 1976, Phi Beta Kappa

Certifications: New York State Woman-Owned Business Enterprise (WBE)

Relevant Work History:

Data Validation Services: September 1989 - present

Sole proprietor of Data Validation Services, a woman-owned small business registered with SAM, providing consultation/validation services to regulatory and commercial clients.

These services include the review of analytical laboratory data for compliance with respect to specific protocols, accuracy and defensibility of data, verification of reported values, and evaluation of quality parameters for analytical usability of results. Approved by USEPA, NYSDEC, NJDEP, NYSERDA, and NYCDEP as a data validator for projects, including USEPA Superfund, Brownfield, and lead sites, and those contracted through the NYSDEC Division of Hazardous Waste Remediation, Division of Solid Waste, and Division of Water Quality.

Performed validation for compliance with laboratory analytical protocols including USEPA OLM, USEPA OLC, USEPA ILM, USEPA DFLM, USEPA SOW3/90, USEPA SOW 7/87 CLP, USEPA SOW 2/88 CLP, USEPA SW846, RCRA, AFCEE, NYS 6 NYCRR Part 360, 40 CFR, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, including TO-15, 1989/1991/1995/2000/2005 NYSDEC ASPs, and 1987 NYSDEC CLP.

Performed validation according to the USEPA National and Regional SOPs and Functional Guidelines, AFCEE requirements, NYSDEC Validation Scope of Work, NYS DUSR, and NJDEP Division of Hazardous Site Mitigation/Publicly Funded Site Remediation SOPs.

Performed validation for USEPA Superfund Sites including Salem Acres, York Oil, Port Washington L-4 Landfill, Bridgeport Rental and Oil Services, GE-MRFA, MMR/ OTIS AFB, LCP, and Peter Cooper site; and for USEPA lead sites including SJ&J Piconne, Maska, Bowe System, Jones Sanitation, and Syossett Landfill, involving CLP, RAS, and SAS protocols.

Contracted for NYSDEC Superfund Standby Contracts with LMS Engineers/HDR, CDM Smith, Malcolm-Pirnie/ARCADIS, Ecology & Environment, Shaw Environmental/APTIM, CG&I, O'Brien & Gere Engineers, and EC Jordan, involving samples collected at NYS Superfund Sites and analyzed under the NYSDEC ASP.

Performed validation services for NYSDEC Phase II remedial investigations, RI/FS projects, Brownfield sites, and PRP over-site projects for hazardous waste sites.

Performed validation services for clients conducting RI/FS activities involving samples of many matrices, including waste, air, sludges, leachates, solids/sediments, aqueous, and biota.

Clients have included AECOM, ARCADIS, Barton & Loguidice, Benchmark Engineering, Bergmann Associates, Blasland, Bouck & Lee, Brown and Caldwell, CDM Smith, CB&I Shaw Environmental, C&S Consulting Engineers, Chazen Companies, Clough Harbour & Associates, Columbia Analytical Services, C.T. Male, Dames & Moore, Day Engineering, EA Engineering, EcolSciences, Ecology & Environment, Ecosystems, EC Jordan, Environmental Chemical Corporation, EHRT, ENSR Consulting, ELM, ERM-Northeast, Fagan Engineers, Fanning Phillips & Molnar, FluorDaniel GTI, Frontier, Foster Wheeler Environmental Corp, Frontier Technical, Galson Consultants, GEI, GE&R, Geomatrix Consultants, GZA Environmental, Handex of N, Hazard Evaluations, H2M Group, HDR, HRP, IT Corp, Jacques Whitford, JTM Associates, JMT, Labella Associates, Langan Engineers, Leader Environmental, Lockwood, Kessler & Bartlett, LMS Engineers, Malcolm-Pirnie, Metcalf & Eddy, NWEC&C, O'Brien & Gere Engineers, Pace, Parsons Engineering-Science, Plumley Engineering, Prescott Environmental, P. W. Grosser, Rizzo Associates, Roux Associates, Sear Brown Group, SECOR, Shaw Environmental, Stantec, ThermoRemediation Inc., TRC Environmental, Turnkey Environmental Restoration, TVGA Engineering, URS Consultants, Wehran Emcon, Weston, Wittman Geosciences, YEC, and private firms.

Provided consultation services to laboratories regarding analytical procedures and protocol interpretation, and to law firms for litigation support.

Provided services to firms involving audits of environmental analytical laboratories to determine analytical capability, particularly for compliance with NYSDEC ASP and AFCEE requirements.

Guest speaker on a panel discussing Data Review/Compliance and Usability, for an analysis workshop for the New York Association of Approved Environmental Laboratories, 1993.

Adirondack Environmental Services: June 1987 - August 1989

Senior mass spectroscopist for AES. Responsible for GC/MS analyses of environmental samples by USEPA and NYSDEC protocols, development of the GC/MS laboratory, initiating the instrumental and computer operations from the point of installation, and for implementing the procedures and methodologies for Contract Laboratory Protocol.

CompuChem Laboratories: May 1982 - January 1987

Managed a GC/MS production laboratory; developed, implemented, and supervised QA/QC criteria at three different levels of review; and was responsible for the development and production of the analysis of environmental and clinical samples. Directed a staff of 23 technical and clerical personnel, and managed the extraction and GC/MS labs and data review operations.

Research Triangle Institute (RTI): December 1979 - May 1982

Worked as an analytical research chemist responsible for development of analytical methods for the EPA Federal Register at RTI. This involved analysis of biological and environmental samples for priority pollutants, primarily relating to wastewaters and to human sampling studies. Method development included modification and interfacing of the initially developed Tekmar volatile purge apparatus to GC/MS, development and refinement of methods for entrapment and concentration of the air medium for subsequent volatile analysis, and the analysis and resolution/ identification of individual PCB congeners within Aroclor mixtures by capillary column and mass spectra.

Guardsman Chemical Company: February 1977 - November 1979

Performed all quality control functions for the manufacturing plant. Performed research and development on coatings and dyes.

Almay Cosmetics: May 1976 - December 1976

Product evaluation chemist. Responsible for analytical QC of manufactured products.

Publication

Pellizzzari, E.D., Moseley, M.A., Cooper, S.D., Harry, J.V., Demian, B., & Mullin, M. D. (1985). Recent Advances in the Analysis of Polychlorinated Biphenyls in Environmental and Biological Media. *Journal of Chromatography*, 334(3) 277-314.

ATTACHMENT 2

Laboratory's Standard Operating Procedures

1,4-Dioxane

By Gas Chromatography / Mass Spectrometry in Selected Ion Mode (GC/MS-SIM) with Isotope Dilution Modification

References:

EPA 8270E, SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Revision VI (Phase II), June 2018.

EPA 8000C, SW-846,Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846. Update III, March 2003.

1,4-Dioxane Analytical Notes, Appendix II-B-4, WSC-CAM-II-B, Revision 1, July 2010, (Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup).

1. Scope and Application

Matrices: Aqueous, soil/sediment and non-aqueous waste matrices

Definitions: Refer to Alpha Analytical Quality Manual.

This method is applicable to the quantification of 1,4-Dioxane extracted from aqueous samples in methylene chloride and analyzed by GC/MS-SIM. The extraction method is listed below and should be referenced for more details. Detection limits will vary with instrument calibration range, and volume of sample analyzed. 1,4-Dioxane detected over the calibration ranges of the instrument it is being analyzed on will be diluted and re-analyzed for accurate quantification.

The following extraction method applies:

- *Extraction of Water Samples by Separatory Funnel* (SOP 2165)
- *Microscale Solvent Extraction (MSE)* (SOP 2172)
- *Organic Waste Dilution Extraction* (SOP 2265)

The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one or more of the following laboratory personnel before performing the modification: Area Supervisor, Department Supervisor, Laboratory Director, or Quality Assurance Officer.

This method is restricted to use by or under the supervision of analysts experienced in the operation of the GC/MS-SIM and in the interpretation of GC/MS-SIM data. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

2. Summary of Method

250mL, 500mL or 1000mL of aqueous samples are serially extracted with methylene chloride in a 2 Liter Separatory Funnel (Method 3510) at a neutral pH. The extract is concentrated in MeCl2 to a 2.5mL to 10mL final volume respectively depending on the volume of sample extracted. Soil/sediment samples are extracted by Microscale Solvent Extraction (MSE Method 3570). Approximately 5g of sample is extracted and concentrated to a 4mL final volume. Non-aqueous waste samples are extracted by Organic Waste Dilution Extraction (Method 3580). Approximately 1g is diluted to 10mL

final volume.

Analytes are introduced into the GC/MS using a large volume injector and injecting 3ul of the calibration standards, quality control samples, and sample extracts into the GC equipped with a narrow-bore capillary column. The GC column is temperature programmed to separate the analytes, which are then detected with a mass spectrometer (MS) in selective ion mode. Identification of target analytes is accomplished by comparing their mass spectra with the electron impact spectra of the calibration standards. Concentrations are determined using mean relative response factors from a multi-level calibration curve. Response factors for target analytes and surrogate compounds are determined relative to the internal standards.

Isotope dilution quantification is achieved by spiking 1,4-Dioxane-d8 at extraction which is then in turn used as both an internal standard (IS) and surrogate. For quantification, the 1,4-Dioxane-d8 IS quantifies 1,4-Dioxane in samples. An additional IS added prior to analysis, 1,4-Dichlorobenzene-d4, quantifies 1,4-Dioxane-d8 as a surrogate.

2.1 Method Modifications from Reference

SIM option with Isotope dilution is utilized to increase sensitivity for this analyte. Note that while this method may be used for the evaluation of 1,4-Dioxane in soil/sediment samples, the MA DEP CAM does not approve of this method for determining presumptive certainty for MA DEP cleanup sites. Method 8260 should be employed in these cases.

3. Reporting Limits

Concentrations for 1,4-Dioxane can be detected in water samples in the range of 150ng/L to 100,000ng/L. Soil/sediment samples can be detected in the range of 8ug/Kg to 8,000ug/Kg. Standard reporting limits for aqueous samples are 150ng/L and for soil/sediment samples 8ug/kg respectively.

4. Interferences

4.1 Phthalate esters can be a major source of contamination if any material containing plasticizers (phthalates) comes in contact with the sample during the extraction process. Use of plastic or any material containing plasticizers (phthalates) should be avoided during extraction or analysis.

4.2 The injection port of the gas chromatograph can become contaminated with high boiling compounds resulting in the loss of sensitivity. It may be necessary to replace the injection port liner routinely to prevent this loss of sensitivity. Clipping off approximately four inches of the column at the injection end may also increase sensitivity. Low instrument response can be detected during the daily tuning procedure by including pentachlorophenol and benzidine in the daily tuning mix.

4.3 Raw GC/MS data from all blanks, samples, and spikes must be evaluated for interferences or carryover. Contamination by carryover can occur whenever high-concentration and low-concentration samples are sequentially analyzed.

4.4 Solvents, reagents and glassware may introduce interferences. These must be demonstrated to be free of interferences by the analysis of a method blank. See the SOP *Reagent, Solvent and Standard Control* (G-008) and *Laboratory Glassware Cleaning* (G-002), for additional details.

4.5 It should be noted that there are some chromatographic consequences observed due to the acetone used in the MSE extraction process. This is characterized by a shift in retention time

for 1,4-Dioxane and the 1,4-Dioxane-d8 surrogate (~0.4minutes), as well as the presence of a large peak (likely acetone) in all chromatograms.

5. Health and Safety

The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material safety data sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection

Solid samples; A minimum of 100grams of sample must be collected in a glass jar with a Teflon lined screw cap.

Water samples: A minimum of 0.25 to 1 liters of sample must be collected in amber glass bottles.

6.2 Sample Preservation

Solid samples: The sample must be refrigerated and maintained at 4±2 °C until extraction and analysis. Sediment samples can be frozen at -20±5 °C until extraction to extend hold time. The extracts must be refrigerated and maintained at 4±2 °C until analysis.

Water samples: The samples must not be preserved except by refrigeration at 4±2 °C until extraction and analysis. The extracts must be refrigerated and maintained at 4±2 °C until analysis.

Non-aqueous waste samples: Concentrated sample extracts must be stored in contaminant-free containers and preserved in a refrigerator when not used for more than four hours.

6.3 Sample Shipping

No special shipping requirements.

6.4 Sample Handling

Solid samples: All solid samples must be extracted within 14 days from the date of collection. Frozen sample hold times are monitored up to 14 days from the date removed from freezer. The extracts must be refrigerated and maintained at 4±2 °C until analysis. Sample extracts must be analyzed within 40 days from date of extraction.

Water samples: All water samples must be extracted within 7 days from the date of collection. Sample extracts must be analyzed within 40 days from date of extraction.

Non-aqueous waste samples: Hold times do not apply to neat oils/NAPL/product samples.

7. Equipment and Supplies

7.1 Gas chromatograph – Programmable, heating range from 40C to 350C; splitless-type inlet system, (Hewlett Packard 6890N Series II or similar); mass selective detector (Hewlett Packard 5973, or similar); automatic injector (Hewlett Packard 7683B or similar).

7.2 Chromatography Column – Fused silica capillary column, 0.25mm ID x 60m length, 0.25um film thickness RTX-5, Restek Corporation, 5% diphenyl-95% dimethyl polysiloxane, Fused silica capillary column, 0.18mm ID x 60m length, 0.18um film thickness RTX-PCB, Restek Corporation, Fused silica capillary column, 0.25mm ID x 30m length, .25um film thickness (Zebron ZB-SemiVolatiles, Phenomenex Corporation, 5% Polysilarylene - 95% Polydimethylsiloxane) , or equivalent.

7.3 Gerstel Large Volume Injection System – Temperature programmable range from 0C to 350C; pressure programmable; capable of split or splitless injection; Injection volumes range from 1 to 50uL and Cryo cooling availability to allow for cold injections.

7.4 Agilent Split/Splitless injector System

7.5 Data Acquisition System - Computerized system for collecting, storing, and processing detector output (Hewlett Packard Enviroquant target software) or equivalent.

7.6 Gases - BIP Ultra high purity helium (99.9995%); Compressed nitrogen for N-Evap. Carbon dioxide (siphon type) for Gerstel.

7.7 Syringes – 10uL to 1.0mL

7.8 Vials- including 2ml, 4ml, 10ml, 40ml and other sizes as necessary.

7.9 Hamilton Gas tight Syringes - varying sizes

7.10 Gerstel Single baffle injection port liners- packed lightly with glass wool.

7.11 GC Injection Port Liner: Phenomenex Direct Connect Top Hole

7.12 Class A Volumetric flasks: Including 10ml, 20 ml, 50 ml, 100ml and other sizes as necessary

8. Reagents and Standards

Use reagent grade chemicals for all reagents. Deionized (DI) water is ASTM Type II laboratory reagent grade water.

8.1 Solvents: All solvent expirations determined as indicated by manufacturer guidelines

8.1.1 Methylene Chloride, ACS approved, Pesticide grade, see SOP *Reagent, Solvent and Standard Control* (SOP 1816) for additional details regarding solvent purity. Used to extract samples and prepare instrument/analytical standards.

8.1.2 Acetone, ACS approved, Pesticide grade, see SOP *Reagent, Solvent and Standard Control* (SOP 1816) for additional details regarding solvent purity. This water soluble solvent is used for surrogate and LCS/MS preparation.

8.1.3 Methanol, ACS approved, Pesticide grade, *Reagent, Solvent and Standard Control SOP* (SOP 1816) for additional details regarding solvent purity.

8.2 Analytical Standards: Standards should be stored at –10C or less, away from light when not in use. They should be discarded after 1 year unless the vendor expiration date states otherwise or, if degradation is observed. Stock standards are given a 1 year expiration from the preparation date or the expiration of the primary vendor solution, whichever occurs first. Working standards are given six month expiration from the preparation date or the expiration of the primary solution whichever occurs first. All analytical standards are made up in Methylene Chloride. All prep standards are made up in Acetone.

8.3 Surrogate/Internal Standard (IS):

8.3.1 A 1,4-Dioxane-d8 Primary neat standard is commercially obtained from Cambridge Isotope (Cat #DLM-28-10 or equivalent). A stock surrogate/internal standard solution is prepared by weighing 0.1 g of the primary neat standard and diluting volumetrically in 10 mls methylene chloride (or equivalent preparation) to obtain a concentration of ~10,000 ug/ml.

8.3.2 From this stock (Section 8.3.1), the Surrogate spiking solution is made by a serial dilution (1 ml diluted up in a 50 ml volumetric flask, followed by a 0.5 ml of this solution diluted up in a 20 ml volumetric flask or equivalent preparations) in Acetone to achieve a concentration of 5 ug/mL. Of this surrogate solution, 1 mL is spiked into each water sample, and 0.4 mL is spiked into each soil/sediment sample for a surrogate/IS concentration of 500 ng/mL in samples.

8.3.3 The initial stock solution (Section 8.3.1) is diluted volumetrically (250 uL diluted up in a 100 ml volumetric flask or equivalent preparation) in methylene chloride to obtain an IS solution at a concentration of 25 ug/ml for the spiking of only the analytical standards (i.e. calibration curve and continuing calibration).

8.4 Internal Standard: 1,4-Dichlorobenzene-d4 commercially obtained from Restek (Cat #31206 or equivalent). This primary solution is at 2000 ug/mL and contains other Semivolatile Internal standards, however this method only utilizes the 1,4-Dichlorobenzene-d4. This solution is diluted volumetrically (250 uL diluted up in a 50 ml volumetric flask or equivalent preparation) in methylene chloride to obtain a SIM-IS solution at a concentration of 25 ug/ml. All samples and standards are spiked with 20uL of internal standard before analysis. This IS is intended to be used for both quantitation (of the surrogate 1,4-Dioxane-d8) and the establishment of relative retention times.

8.5 Matrix Spike/Laboratory Control Spike Solutions (MS/LCS) – 1,4-Dioxane primary spike solution is commercially obtained from Restek at 2000 ug/mL (Cat #31853 or equivalent). To prepare the working spike solution, syringe measure 0.25 mL of stock and bring to 100 mL in acetone (or equivalent preparation) for a 5 ug/mL concentration. From this solution, 1 mL is spiked into each MS/LCS QC water sample and 0.4 mL is spiked into each soil/sediment sample. The final concentration in a 10 mL water extract and in a 4 mL soil/sediment sample will be 500 ng/mL.

8.6 Stock Calibration Standards are prepared from a primary standard commercially obtained from Restek at a concentration of 2000 ug/ml (Cat #31853 or equivalent). The primary standard is used to appropriately prepare a stock standard at a concentration of 10,000 ng/ml (125 uL diluted up in a 25 ml volumetric flask or equivalent preparation). The stock solution is generally made up in 25 ml increments. The stock solution then doubles as a high level standard for the calibration curve, as well as a stock solution by which to serially dilute to prepare the other calibration standards. Except for the high level standard, the calibration curve levels are generally each made at 10 ml. Refer to the table below for example calibration curve levels. All the calibration curve levels, once aliquoted at 1 ml increments for injection, have 20 ul of 1,4

Dichlorobenzene IS (SIM IS – Section 8.4) added as well as 20 uL of 1,4 Dioxane-d8 IS/Surrogate (Section 8.3.3) added.

8.7 Curve Preparation: The following 7 levels are the possible levels that can be analyzed for an ICAL.

Calibration Level	*Volume of Stock Std Added Into 10 ml of DCM*
Level 1 (10 ng/mL)	10 uL
Level 2 (50 ng/mL)	50 uL
Level 3 (100 ng/mL)	100 uL
Level 4 (500 ng/mL)	500 uL
Level 5 (1000 ng/mL) - CCV	1.0 mL
Level 6 (5000 ng/mL)	5.0 mL
Level 7 (10,000 ng/mL)	NA

8.8 The Independent Check Verification Standard is prepared from a Primary standard solution commercially obtained from Ultra (Cat NV-150-1 or equivalent) at a concentration of 100 ug/ml. The primary solution is diluted volumetrically (100 ul diluted up in a 10 ml volumetric flask or equivalent preparation) in methylene chloride to create a working ICV solution at a concentration of 1000 ng/ml. The working ICV solution is aliquoted into 1 ml increments as needed to inject with each calibration curve. Additionally, 20 ul of SIM IS (Section 8.4) and 20 ul of 1,4-Dioxane-d8 IS (Section 8.3.3) is added into the 1 ml aliquot.

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 Blank(s)

A method blank must be prepared once per every 20 samples or per extraction batch, whichever is more frequent.

Organic compounds of interest must not be detectable in the method blank at a concentration greater than the reporting limit.

Corrective Action: For contaminated blanks, all efforts must be made to identify and eliminate the source of contamination. The presence of analytes at concentrations at or above the reporting limit will warrant application of a “B” qualifier to that target compound(s) on all associated report forms, and perhaps re-extraction of all associated samples. Re-extraction of the method blank and all associated samples must be performed until the blank is in control. Surrogate recoveries must meet the QC limits for the method blank. Re-extraction must be initiated immediately so that minimum time is wasted before re-extraction can occur - if at all possible-this re-extraction should take place within holding time. Re-extraction *corrective action* that would exceed the sample holding time criteria should be discussed with the Organics Supervisor, Project Manager, client, and Operations Manager prior to implementation. Exceptions may be made with approval of the Organics Section Supervisor if the samples associated with an out of control method blank are non-detect for the affected compound(s) or if the concentration of the affected compound(s)in the sample is greater than 10x the blank level. In such cases, the sample results are accepted without corrective action for the high method blank result. The client must be notified, via the project narrative, of any method blank non-compliance associated with sample results

9.2 Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

Laboratory control samples (LCS/LCSD) must be prepared once per every 20 samples or per extraction batch, whichever is more frequent, and spiked with 1,4 Dioxane spike solution (Section 8.5) and surrogate (Section 8.3.2) before extraction. The IS (Section 8.4) is spiked after extraction and before the analysis.

Acceptable Recovery limits are 40% - 140%. The relative percent difference (RPD) between the LCS/LCSD is 30%. Limits are adapted from MCP protocol and are generally monitored and documented in-house through control charts.

Corrective Action: Analysis must be repeated if an analytical error is suspected. If the LCS/LCSD recoveries and/or %RPD are still out of control, re-extract and re-analyze the LCS/LCSD and all associated samples. Samples cannot be reported until an acceptable LCS is obtained.

9.3 Initial Calibration Verification (ICV)

Refer to Section 10.2.

9.4 Continuing Calibration Verification (CCV)

Refer to Section 10.4.

9.5 Matrix Spike / Matrix Spike Duplicate (MS/MSD)

Matrix spike / matrix spike duplicate (MS/MSD) samples are performed upon project specifications. They are performed per client request. The sample is spiked with 1,4-Dioxane spike solution (Section 8.5) and surrogate (Section 8.3.2) before extraction. The IS (Section 8.4) is spiked after extraction and before the analysis. The recovery limits are 40% - 140% and the RPD limit is 30%. Limits are adapted from MCP protocol and are generally monitored and documented in-house through control charts.

Corrective Action: Analysis must be repeated if an analytical error is suspected. If the % recovery and/or %RPD still exceeds the control limits and the LCS/LCSD is compliant; include a project narrative with the results to client noting that there may be potential matrix effects on the accuracy or precision of the reported results as evidenced by MS/MSD recoveries and/or %RPD outside of QC limits.

9.6 Laboratory Duplicate

Duplicate analyses are performed upon client and/or workplan request. *For Organic analyses, the matrix duplicate is usually in the form of the matrix spike duplicate, see Section 9.5.*

Acceptable relative percent difference (RPD) of duplicates is 30%. Acceptance criterion is not applicable to sample concentrations less than 5 times the reporting limit. Calculate the RPD as follows:

$$RPD = \frac{R1 - R2}{\frac{[R1 + R2]}{2}} \times 100$$

where:

R1 = sample Replicate #1
R2 = sample Replicate #2

The RPD limits should be monitored and documented in-house through control charts and updated as needed.

Corrective Action: Analysis must be repeated if an analytical error is suspected.. If the % RPD still exceeds the control limits; include a project narrative with the results to client noting that there may be potential matrix effects on the precision of the reported results as evidenced by the matrix duplicate % RPD exceedence.

9.7 Method-specific Quality Control Samples

9.7.1 Surrogates

Surrogate spikes (Section 8.3.2 and Section 8.3.3) must be added to QC and field samples to evaluate the extraction method performance.

The acceptable surrogate recovery limits are 15% - 110%. Limits are adapted from MCP protocol.

Corrective Action: Analysis must be repeated if an analytical error is suspected. If the % recovery still exceeds the control limits the sample must be re-extracted and re-analyzed to confirm the sample matrix. If *obvious* matrix interferences are noted, consultation with the Organic Supervisor or Operations Manager may be in order to confirm the need for sample re-extraction. If no re-extraction occurs, the surrogate results and reasons for the decision not to re-extract must be discussed in the project narrative to the client. Due to the isotope dilution nature of this method, the analyst must pay close attention to surrogate recoveries and areas as this recovery is then used to surrogate correct (as an Internal standard) the response of 1,4-Dioxane.

9.7.2 Internal Standards

Internal standards must be added to all sample extracts, QC samples and standards for quantitation purposes. For sample extracts, only the 1,4-Dichlorbenzene-d4 IS (SIM IS – Section 8.4) should be added since the extraction surrogate is then used as an Internal Standard upon analysis. However, all Calibration standards must be spiked with both 1,4-Dichlorobenzene-d4 as well as 1,4-Dioxane-d8 (Section 8.3.3). In the sample extracts the area counts for 1,4-Dioxane-d8 will vary based on the extraction, however the 1,4-Dichlorobenzene-d4 area counts should remain fairly constant. The 1,4-Dichlorobenzene-d4 internal standard should also remain constant with respect to the continuing calibration analyzed at the beginning of the run. Sample IS areas must be –50% to +100% of the Internal Standards in the Continuing Calibration – applies only to 1,4-Dichlorobenzene-d4. Additionally, the IS retention times should not differ more than 30 seconds from the Continuing Calibration.

Corrective Action: Analysis must be repeated once unless there are obvious samples matrix interferences, i.e., the sample extract was very colored and viscous, or there are obvious chromatographic interferences. If *obvious* matrix interferences are noted, consultation with the Organic Supervisor or Operations Manager may be in order to confirm the need for sample re-analysis or re-extraction.

9.8 Method Sequence

- Tune
- CCV
- Method Blank
- LCS
- LCSD
- Samples

10. Procedure

10.1 Equipment Set-up

10.1.1 The instrument used for the analysis is a HP 6890N Series gas chromatograph. The HP system is equipped with a Gerstel large volume injection system, and a 7683B-type autosampler or equivalent. The mass spectrometer is an HP 5973 or 5975 with the HP Enviroquant data system. The method is modified for selective ion monitoring. The table below lists the ions monitored in one SIM window. This method must only be set up and analyzed by an experienced mass spectrometrist.

Compound	*Primary Ion*	*Secondary Ion*
1,4-Dioxane	88	58, 43
1,4-Dioxane-d8	64	96
1,4-Dichlorobenzene-d4	152	115

10.1.2 The basic GC parameters are as follows for the Gerstel Large Volume Injection System:

Oven Equib Time: 0.10 min
Oven Max: 325
Initial Temp.: 45°C
Initial Time: 6.00 min

Level	Rate (°C/min)	Final Temp. (°C)	Final Time (min)
1	19.00	120	1.0
2	11.00	150	1.00
3	19.00	305	4.00

Final Time: 26.83

10.1.3 The basic injection port parameters are as follows for the Gerstel Large Volume Injection System:

"Splitless" mode
Initial Temp: 46 °C
Initial Time: 0.30 min
Ramp Rate: 300°/second
Final Temp: 300°C
Final Time: 30.0
Cryo: ON
Cryo Use temp: 25 °C
Cryo Timeout: 30.0 min
Cryo Fault: ON
Purge Flow: 25 ml/min

Purge Time: 2.50 min
Gas Saver: off
Gas: Helium

Mode: Constant Pressure
Average Velocity: 30cm/sec
Initial flow: 1.3 ml/min

10.1.4 The basic GC parameters are as follows for the Agilent Split/Splitless injector System:

Oven Equib Time: 0.20 min
Oven Max: 325°C
Initial Temp.: 30°C

Level	Rate (°C/min)	Final Temp. (°C)	Final Time (min)
1	0	30	2.00
2	5	50	0.00
3	50	300	2.00

Final Time: 13.00

10.1.5 The basic injection port parameters are as follows for the Agilent Split/Splitless injector System:

:

Mode: Splitless
Temperatuire: 200 °C
Flow: 1.0 mL/min
Velocity: 36.074 cm/sec
Septum Purge: 3mL/min
Purge Flow to Split Vent: 60 mL/min at 0.3 min

10.1.6 MS Acquisition Information:

Tune file: dftpp.u
Acquisition Mode: SIM
Solvent Delay: 7.70 min
MS Source temp: 280°C

10.1.7 Tuning

10.1.7.1 Before the analytical standards are analyzed the mass spectrometer must be adjusted to meet the proper ion criteria for DFTPP. This is demonstrated by injecting into the GC/MS system 1uL of a 50ug/mL DFTPP solution. After the analysis of the DFTPP, evaluate the tune as follows:

- Enter into the “Environmental Data Analysis” (off-line) screen.
- Go to “File” and select the tune data file.
- Go into “Tuner” and select “Eval DFTPP”, then select “AutoFind DFTPP to Screen,” to evaluate the tune file, based on the pre-set SW-846 criteria**.** The software will evaluate the tune by selecting three scans of the DFTPP peak

and will display the ion intensities on the screen. That is, one scan at the apex, one scan directly preceding the apex and one scan following the apex and averages them, then takes one background subtracted scan, 20 seconds before the beginning of the DFTPP peak. If the criteria below are met, repeat, select "AutoFind to Printer", for a hardcopy of the tune evaluation for the record.

If the "AutoFind" tune evaluation does not meet the criteria below, manual evaluation of the tune can be performed by attempting either of the options below:

- Blow up the DFTPP peak on the screen and select either one single scan at the apex of the peak, or a scan immediately preceding or following the apex. Go into "Tuner" and select "Evaluate DFTPP to Screen," or "Evaluate DFTPP to Printer," as described above, OR,
- Take the average of the scans across the entire peak. Go into "Tuner" and select "Evaluate DFTPP to Screen," or "Evaluate DFTPP to Printer," as described above.

10.1.7.2 The following DFTPP mass intensity criteria should be used.

DFTPP KEY MASSES AND ABUNDANCE CRITERIA

Mass	m/z Abundance criteria
51	10-80 percent of mass 198.
68	Less than 2 percent of mass 69.
70	Less than 2 percent of mass 69.
127	10-80 percent of mass 198.
197	Less than 2 percent of mass 198.
198	Base peak, or >50 percent of Mass 442.
199	5-9 percent of mass 198.
275	10-60 percent of mass 198.
365	Greater than 1 percent of mass 198.
441	Present but less than 24 percent of mass 442.
442	Base Peak, or > 50 percent of mass 198.
443	15-24 percent of mass 442.

10.1.8 Tune acceptance should be verified at the beginning of every 12 hour analytical shift. The DFTPP may be combined with the calibration verification standard as long as both tuning and calibration acceptance criteria are met.

10.2 Initial Calibration

10.2.1 After the DFTPP passes criteria, a set of multi-level calibration standards listed in Section 8.7 are analyzed, from low concentration to high. A minimum of five calibration levels are analyzed. The calibration standards are stored in amber vials in the standards freezer. The labeling convention allows each standard to have a unique identifier which distinguishes it from field samples. The naming convention used throughout the laboratory identifies the standard as semivolatile, hydrocarbon, pesticide/PCB or volatile. An example of this would be SW042407E, meaning it is a semivolatile (S) working (W) standard made on April 24, 2007 and that it was the fifth standard made that day. All certificates of analysis that are shipped with standards are filed with their receipt ID written on it to insure traceability.

10.2.2 Once the standards have been analyzed, they are reduced by the search software of the Enviroquant data system. Once all the components are identified, a linear curve is calculated for the components. The criteria for evaluation are as follows:

10.2.2.1 The average RF for each compound must be greater than 0.05.

10.2.2.2 The %RSD of each compound must not exceed 20%. If they do this may be an indication that the chromatographic system is too reactive for analysis to begin. This indicates the instrument may need maintenance.

10.2.2.3 Alternatively, a linear regression model may be employed, provided that the coefficient of determination (COD or r2) is ≥0.99. Otherwise, construct a nonlinear calibration of no more than a third order equation. Statistical considerations in developing a non-linear calibration model require more data than the more traditional linear approach. A quadratic (second order) model requires six standards, and a third order polynomial requires seven standards. In setting model parameters, do not force the line through the origin. The COD or r^2 must be greater than or equal to 0.99.

10.2.2.4 Once the calibration curve is reviewed, an Initial Calibration Checklist must be completed.

10.2.3 All samples and standards are spiked with Internal Standards (IS) before analysis. Refer to section 8.4 for specific internal standard spiking information. The IS is intended to be used for both quantitation and the establishment of relative retention times. Internal standard acceptance criteria can be found in Section 9.7.2.

10.2.4 Independent check standards (Section 8.8) from a separate source or different lot are analyzed after every initial calibration for evaluation against calibration standard solutions. The % Difference (%D) should not be greater than ±30%.

10.3 Equipment Operation and Sample Processing

10.3.1 Tuning

A DFTPP standard must be analyzed and pass criteria before a continuing calibration verification standard or any samples are analyzed. The DFTPP may be combined with the calibration verification standard as long as both tuning and calibration acceptance criteria are met. A DFTPP tune standard must be analyzed before each 12 hour analytical shift. Please refer to Section 10.1.5 for tuning criteria and other information.

10.3.2 Daily Calibration

On a daily basis after the DFTPP has passed, a mid-level (usually 1000 ng/mL) continuing calibration standard which contains all of the analytes of interest is analyzed. The criteria for acceptance are:

10.3.2.1 All analytes must have response factors greater than 0.05.

10.3.2.2 The % D must be ±20% D from the initial calibration.

10.3.3 Sample Analysis

10.3.3.1 The prep lab staff will transfer the samples to the instrument laboratory. The samples are generally brought to a 10 mL final volume for liquids or 4 ml for soil samples; 1 mL is transferred and the remaining sample volume is archived. One aliquot of each sample is then placed in the sample extract holding refrigerator located in the instrument laboratory.

10.3.3.2 All of the samples at 1 mL (including the batch QC samples) are spiked with 20 uL

internal standard (see section 8.4 for specifics regarding the internal standard). The samples are shaken briefly after the internal standard is added to ensure mixing. A sample will need a dilution for target analytes that are over calibration.

10.3.3.3 After the daily tune and CCAL have passed criteria, the analyst places the samples onto the autosampler tray. (Generally, the samples will be analyzed in order of color (lightest to darkest.) with QC samples being analyzed first. The instrument sequence is typed into the HP Chemstation Software. Next run "Simulate Sequence" (also under the "Sequence" dropdown list) without clicking the "Overwrite Files" box. Compare the order of the vials on the instrument versus the sequence to confirm all the samples and standards are in the right places. Next click "Run Sequence" also under the HP Chemstation "Sequence" dropdown list.

10.3.3.4 After the samples have been analyzed, the data files from the MS are quantitated versus the proper quantitation method. The QCPRN1.MAC macro creates a form with which to easily check internal standard and surrogate criteria are met. The following should be reviewed initially:

10.3.3.4.1 Are all the surrogates within QC criteria? Please see Section 9.7.1 for surrogate information.

10.3.3.4.2 Is the internal standard- 1,4 Dichlorobenzene-d4, within 50-200% of the daily CCAL? If not, the samples should be checked for matrix interferences that may be causing these issues. The IS peaks should also be evaluated for peak splitting or incorrect integration by the software. A sample may not need to be reanalyzed if it can be determined (with guidance from a supervisor) that the QC is exceeded due to matrix interference.

10.3.3.4.3 Are all target analytes within calibration range? If not, the sample(s) should be diluted and re-analyzed. If a dilution is performed after the internal standard has already been added, it will be necessary to add additional IS in order to make up for the impact of the original IS added also being diluted. Conversely, if a sample has been over-diluted, it may need to be analyzed at less of a dilution to detect target analytes that may have been diluted out. Note: for this method, due to the isotope dilution, it is necessary to refer to area counts to determine if dilution is required. The area response for 1,4-Dioxane should be compared to the area of the highest level of the ICAL standard for that target. If the area of 1,4-Dioxane in the extract is greater than the area of 1,4-Dioxane in the Highest level of the Calibration Curve, then a dilution is necessary. The analyst **CAN NOT** use the concentration of 1,4-Dioxane found in the extract to determine if dilution is required because the concentration of 1,4-Dioxane in the sample is surrogate corrected in Chemstation based on the use of the extraction surrogate as an Internal Standard. Once it is determined based on the peak area that a sample requires a dilution, the analyst must pay attention to the concentration of IS in the dilution. Although the analyst will adjust the 1,4-Dichlorobenzene-d4 concentration by adding the appropriate amount of additional IS to the dilution, there is no way for the analyst to make up for the dilution of the extraction surrogate 1,4 dioxane-d8 (also used as internal standard). To account for this the analyst must change the concentration of the 1,4-Dioxane-d8 within the calibration table to a value which accounts for the dilution. (Example: If the analyst performs a 10x dilution then the concentration of 1,4-Dioxane–d8 must be changed within the ICAL to 50.) The analyst must ensure that only the diluted sample is calculated against this

value and that the method is returned to the proper concentration once the analysis of the dilution is complete.

10.3.3.4.4 Are all analyses within 12 hour tune time? If a sample is analyzed outside tune time, it will need to be re-analyzed in another tune clock.

10.3.3.4.5 The sequence should also be printed out from Chemstation, initialed and dated, and placed in the logbook.

10.3.3.4.5.1 If anything in the initial review of the data indicates that there should be a re-analysis, the reason for re-analysis should be noted on the sequence.

10.3.3.4.5.2 Also, note the time the tune standard was analyzed, the time of the last sample analysis. If there are samples analyzed outside tune time, the time the last sample within tune time ran should be noted, as well as the last sample analyzed.

10.3.3.4.5.3 If a re-extract is required, the "Request for Repreparation/Reclean" book should be filled out and a photocopy of the appropriate page should be given to the Preparation Group leader or the Organics Section Head.

10.4 Continuing Calibration

Continuing Calibration Criteria is outlined in section 10.3.2

10.5 Preventive Maintenance

If performing any maintenance on any piece of equipment it must be documented in the *Instrument Maintenance Logbook* located in the laboratory specific to each instrument.

Daily

Injection port maintenance: Maintenance should be done when the daily CCAL starts to demonstrate degradation either by %D outliers or area responses <50% as compared to the ICAL areas. Several tune clocks may be injected before maintenance is needed. The type of samples analyzed will have an effect on how soon maintenance should be performed. Injection port maintenance should be done as needed. General maintenance includes replacing the single baffle liner packed lightly with glass wool, cutting about 2-4 inches off the head of the column, and replacing the septa. Refer to maintenance log for more specific information.

The Gerstel Injection port should be handled with care. The liners are quite thin. Do not force the Gerstel weldmen into place as the threads are soft metal and will cross thread. Always make sure the weldmen goes on straight. The Gerstel injection port does not require significant tightening of either the weldmen or column nut, tighten enough to seal but there is no need to crank down on it.

11. Data Evaluation, Calculations and Reporting

11.1 Qualitative Analysis

11.1.1 The qualitative identification of compounds determined by this method is based on retention time and on comparison of mass spectrum, after background correction, with

characteristic ions in a reference mass spectrum. The reference mass spectrum must be generated by the laboratory using the conditions of this method. The characteristic ions from the reference mass spectrum are defined as the two ions of greatest relative intensity, and are over 30% relative intensity. Compounds are identified when the following criteria are met.

11.1.2 The intensities of the characteristic ions of a compound must maximize in the same scan or within one scan of each other. A peak selected by the data system, based on the presence of target specific ions at a target specific retention time will be accepted as meeting these criteria.

11.1.3 The relative retention time of the sample component is within $\pm$ 0.06 RRT units of the RRT of the standard component.

11.1.4 The relative intensities of the characteristic ions agree within 30% of the relative intensities of these ions in the reference spectrum (Example: For an ion with an abundance of 50% in the reference spectrum, the corresponding abundance in a sample spectrum can range between 20% and 80%.) The relative intensities are monitored daily. The relative intensities will be updated when they exceed established values from the reference spectrum.

11.1.5 Structural isomers that produce very similar mass spectra should be identified as individual isomers if they have sufficiently different GC retention times. Sufficient GC resolution is achieved if the height of the valley between two isomer peaks is less than 25% of the sum of the two peak heights. Otherwise, structural isomers are identified as isomeric pairs.

11.1.6 Identification is hampered when sample components are not resolved chromatographically and produce mass spectra containing ions contributed by more than one analyte. When gas chromatographic peaks obviously represent more than one sample component (i.e. a broadened peak with shoulder(s) or a valley between two or more maxima), appropriate selection of analyte spectra and background spectra is important. Selective ion monitoring eliminates this potential.

11.2 Quantitative Analysis

11.2.1 Response factors and % RSD to evaluate Initial Calibration acceptability.

Calculate RF by:

$$RF = \frac{area_{cmp}}{area_{is}} \times \frac{conc_{is}}{conc_{cmp}}$$

where:

area cmp = Area of the characteristic ion for the compound being measured.
area is = Area of the characteristic ion for the specific internal standard.
conc is = Concentration of the specific internal standard.
conc cmp = Concentration of the compound being measured.

Calculate % RSD by:

$$\%RSD = \frac{SD}{\overline{x}} \times 100 \qquad SD = \sqrt{\sum_{i=1}^{N} \frac{(x_i - \overline{x})^2}{N-1}}$$

where:

% RSD = percent relative standard deviation
x = average of RF's
SD = standard deviation
xi = analytical results of each level in the final reporting units
N = number of results (levels)

11.2.2 Calculate % Difference (%D) by:

$$\%D = \frac{\overline{RF}_i - RF_c}{\overline{RF}_i} \times 100$$

where:

RFi - Initial Calibration average RF
RFc = Continuing Calibration RF

11.2.3 Results of Water Analysis - calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

11.2.4 Results of Soil/Sediment Analysis – calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})\ \%S} \times 1000$$

where:
Conc = Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi = Volume of sample extracted (mL), or weight of sample extracted in grams (g)
DF = Dilution factor, for manually prepared dilutions, not instrumental "dilutions".
%S = percent solids, as a decimal

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

Section 9.0 outlines sample batch QC acceptance criteria. If non-compliant organic compound results are to be reported, the Organic Section Head and/or the Laboratory Director, and the Operations Manager must approve the reporting of these results. The laboratory Project Manager

shall be notified, and may chose to relay the non-compliance to the client, for approval, or other corrective action, such as re-sampling and re-analysis. The analyst, Data Reviewer, or Department Supervisor performing the secondary review initiates the project narrative, and the narrative must clearly document the non-compliance and provide a reason for acceptance of these results.

All results for the organic compounds of interest are reportable without qualification if extraction and analytical holding times are met, preservation requirements (including cooler temperatures) are met, all QC criteria defined in the table below are met, and matrix interference is not suspected during extraction or analysis of the samples. If any of the below QC parameters are not met, all associated samples must be evaluated for re-extraction and/or re-analysis.

QC Parameter	Acceptance Criteria
Method Blank	No analyte above the reporting limit The results are qualified with a "B" for any associated sample concentrations that are less than 10x the blank concentration for this analyte
Surrogate Recovery	15% - 110%
Laboratory Control Samples	40% - 140% and 30% RPD
Matrix Duplicate	30% RPD
Matrix Spike	40% - 140%
Matrix Spike Duplicate	40% - 140% and 30% RPD

13. Method Performance

13.1 Method Detection Limit Study (MDL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

The laboratory follows the procedure to determine the MDL, LOD, and/or LOQ as outlined in Alpha SOP 1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

Refer to Alpha SOP 1739 for further information regarding IDC/DOC Generation.

13.2.1 Initial (IDC)

The analyst must make an initial, one-time, demonstration of the ability to generate acceptable accuracy and precision with this method, prior to the processing of any samples.

13.2.2 Continuing (DOC)

The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

Refer to Alpha's Chemical Hygiene Plan and Waste Management and Disposal SOP for further pollution prevention and waste management information.

15. Referenced Documents

Chemical Hygiene Plan

SOP 1732 Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ)
SOP 1739 Demonstration of Capability (DOC) Generation
SOP 1731 Manual Integration & Compound Rejection
SOP 1797 Hazardous Waste and Sample Disposal

SOP 1816 Reagent, Solvent and Standard Control

16. Attachments

None

Method 1633 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids and Tissue Samples by LC-MS/MS

References: Method 1633 - Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS (2nd Draft - June 2022)

DOD QSM (US Department of Defense Quality Systems Manual for Environmental Laboratories, version 5.4, 20221)

1. Scope and Application

Matrices: Drinking water, Non-potable Water, Tissues, Biosolids and Soil Matrices

Definitions: Refer to Alpha Analytical Quality Manual.

1.1 Method 1633 is for use in the Clean Water Act (CWA) for the determination of the per- and polyfluoroalkyl substances (PFAS) in Table 1 in aqueous, solid (soil, biosolids, sediment) and tissue samples by liquid chromatography/mass spectrometry (LC-MS/MS).

1.2 The method calibrates and quantifies PFAS analytes using isotopically labeled standards. Where linear and branched isomers are present in the sample and either qualitative or quantitative standards containing branched and linear isomers are commercially available, the PFAS analyte is reported as a single analyte consisting of the sum of the linear and branched isomer concentrations

1.3 This is a liquid chromatography/tandem mass spectrometry (LC/MS/MS) method for the determination of selected perfluorinated alkyl substances (PFAS) in Non-Drinking Water, tissue soil and biosolid Matrices. Accuracy and precision data have been generated for the compounds listed in Table 1.

1.4 The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one or more of the following laboratory personnel before performing the modification: Area Supervisor, Department Supervisor, Laboratory Director, or Quality Assurance Officer.

1.5 This method is restricted to use by or under the supervision of analysts experienced in the operation of the LC/MS/MS and in the interpretation of LC/MS/MS data. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

2. Summary of Method

2.1 Environmental samples are prepared and extracted using method-specific procedures. Sample extracts are subjected to cleanup procedures designed to remove interferences. Analyses of the sample extracts are conducted by LC-MS/MS in the multiple reaction monitoring (MRM) mode. Sample concentrations are determined by isotope dilution or extracted internal standard quantification using isotopically labeled compounds added to the samples before extraction.

2.2 Aqueous samples are spiked with isotopically labeled standards, extracted using solid-phase extraction (SPE) cartridges and undergo cleanup using carbon before analysis.

2.3 Solid samples are spiked with isotopically labeled standards, extracted into basic methanol, and cleaned up by carbon and SPE cartridges before analysis

2.4 Tissue samples are spiked with isotopically labeled standards, extracted in potassium hydroxide and acetonitrile followed by basic methanol, and cleaned up by carbon and SPE cartridges before analysis.

2.5 A sample extract is injected into an LC equipped with a C18 column that is interfaced to an MS/MS). The analytes are separated and identified by comparing the acquired mass spectra and retention times to reference spectra and retention times for calibration standards acquired under identical LC/MS/MS conditions. The concentration of each analyte is determined by using the isotope dilution technique. Extracted Internal Standards (EIS) analytes are used to monitor the extraction efficiency of the method analytes.

2.6 Method Modifications from Reference

N/A

3. Reporting Limits

The reporting limit for PFAS's are listed in Table 8.

4. Interferences

4.1 PFAS standards, extracts and samples should not come in contact with any glass containers or pipettes as these analytes can potentially adsorb to glass surfaces. PFAS analyte and EIS standards commercially purchased in glass ampoules are acceptable; however, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene containers.

4.2 Method interferences may be caused by contaminants in solvents, reagents (including reagent water), sample bottles and caps, and other sample processing hardware that lead to discrete artifacts and/or elevated baselines in the chromatograms. The method analytes in this method can also be found in many common laboratory supplies and equipment, such as PTFE (polytetrafluoroethylene) products, LC solvent lines, methanol, aluminum foil, SPE sample transfer lines, etc. All items such as these must be routinely demonstrated to be free from interferences (less than 1/2 the RL for each method analyte) under the conditions of the analysis by analyzing laboratory reagent blanks as described in Section 9.1. Subtracting blank values from sample results is not permitted.

4.3 Matrix interferences may be caused by contaminants that are co-extracted from the sample. The extent of matrix interferences will vary considerably from source to source, depending upon the nature of the water. Humic and/or fulvic material can be co-extracted during SPE and high levels can cause enhancement and/or suppression in the electrospray ionization source or low recoveries on the SPE sorbent. Total organic carbon (TOC) is a good indicator of humic content of the sample.

4.4 SPE cartridges can be a source of interferences. The analysis of field and laboratory reagent blanks can provide important information regarding the presence or absence of such interferences. Brands and lots of SPE devices should be tested to ensure that contamination does not preclude analyte identification and quantitation.

5. Health and Safety

5.1 The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material safety data sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

5.2 All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

5.3 PFOA has been described as “likely to be carcinogenic to humans.” Pure standard materials and stock standard solutions of these method analytes should be handled with suitable protection to skin and eyes, and care should be taken not to breathe the vapors or ingest the materials.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection for Aqueous Samples

6.1.1 Samples must be collected in two (2) 500-mL or 250-mL high density polyethylene (HDPE) container with an unlined plastic screw cap. All sample containers must have linerless HDPE or polypropylene caps.

6.1.2 The sample handler must wash their hands before sampling and wear nitrile gloves while filling and sealing the sample bottles. PFAS contamination during sampling can occur from a number of common sources, such as food packaging and certain foods and beverages. Proper hand washing and wearing nitrile gloves will aid in minimizing this type of accidental contamination of the samples.

6.1.3 Open the tap and allow the system to flush until the water temperature has stabilized (approximately 3 to 5 min). Collect samples from the flowing system.

6.1.4 Fill sample bottles. Samples do not need to be collected headspace free.

6.1.5 After collecting the sample and cap the bottle. Keep the sample sealed from time of collection until extraction.

6.1.6 Maintain all aqueous samples protected from light at 0 - 6 ºC from the time of collection until shipped to the laboratory. Samples must be shipped as soon as practical with sufficient ice to maintain the sample temperature below 6 ºC during transport and be received by the laboratory within 48 hours of collection. The laboratory must confirm that the sample temperature is 0 - 6 ºC upon receipt. Once received by the laboratory, the samples must be stored at ≤ -20 ºC until sample preparation.

6.2 Sample Collection for Soil and Sediment samples.

6.2.1 Grab samples are collected in polypropylene containers. Sample containers and contact surfaces containing PTFE shall be avoided. Samples should fill no more than ¾ full.

6.2.2 Maintain solid samples protected from light (in HDPE containers) at 0 - 6 ºC from the time of collection until receipt at the laboratory. The laboratory must confirm that the sample temperature is 0 - 6 ºC upon receipt. Once received by the laboratory, the samples must be stored at ≤ -20 ºC until sample preparation.

6.3 Sample Collection for fish and other tissue samples

6.3.1 Once received by the laboratory, the samples must be maintained protected from light at ≤ -20 ºC until prepared. Store unused samples in HDPE containers or wrapped in aluminum foil at ≤ -20 ºC.

6.3.2 The nature of the tissues of interest may vary by project. Field sampling plans and protocols should explicitly state the samples to be collected and if any processing will be conducted in the field (e.g., filleting of whole fish or removal of organs). All field procedures must involve materials and equipment that have been shown to be free of PFAS.

6.4 Sample Preservation

Not applicable.

6.5 Sample Shipping

Samples must be chilled during shipment and must not exceed 0 – 6 °C during the first 48 hours after collection. Sample temperature must be confirmed to be at or below 0 – 6 °C when the samples are received at the laboratory. Samples stored in the lab must be held at or below 6 °C until extraction but should not be frozen.

NOTE: Samples that are significantly above 0 – 6 ° C, at the time of collection, may need to be iced or refrigerated for a period of time, in order to chill them prior to shipping. This will allow them to be shipped with sufficient ice to meet the above requirements.

6.6 Sample Handling

6.6.1 Aqueous samples (including leachates) should be analyzed as soon as possible; however, samples may be held in the laboratory for up to 90 days from collection, when stored at ≤ -20 ºC and protected from the light. When stored at 0 - 6 ºC and protected from the light, aqueous samples may be held for up to 28 days, with the caveat that issues were observed with certain perfluorooctane sulfonamide ethanols and perfluorooctane sulfonamidoacetic acids after 7 days. These issues are more likely to elevate the observed concentrations of other PFAS compounds via the transformation of these precursors if they are present in the sample.

6.6.2 Solid samples (soils and sediments) and tissue samples may be held for up to 90 days, if stored by the laboratory in the dark at either 0 - 6 ºC or ≤ -20 ºC, with the caveat that samples may need to be extracted as soon as possible if NFDHA is an important analyte.

6.6.3 Biosolids samples may be held for up to 90 days, if stored by the laboratory in the dark at 0 - 6 ºC or at -20 ºC. Because microbiological activity in biosolids samples at 0 - 6 ºC may lead to production of gases which may cause the sample to be expelled from the container when it is opened, as well as producing noxious odors, EPA recommends that samples be frozen if they need to be stored for more than a few days before extraction. Store sample extracts in the dark at less than 0 - 4 ºC until analyzed. If stored in the dark at less than 0 - 4 ºC, sample extracts may be stored for up to 90 days, with the caveat that issues were observed for some ether sulfonates after 28 days. These issues may elevate the observed concentrations of the ether sulfonates in the extract over time. Samples may need to be extracted as soon as possible if NFDHA is an important analyte.

7. Equipment and Supplies

7.1 SAMPLE CONTAINERS – 500-mL or 250-mL high density polyethylene (HDPE) bottles fitted with unlined screw caps. Sample bottles must be discarded after use.

7.2 SAMPLE JARS – 8-ounce wide mouth high density polyethylene (HDPE) bottles fitted with unlined screw caps. Sample bottles must be discarded after use.

7.3 POLYPROPYLENE BOTTLES – 4-mL narrow-mouth polypropylene bottles.

7.4 CENTRIFUGE TUBES – 50-mL conical polypropylene tubes with polypropylene screw caps for storing standard solutions and for collection of the extracts.

7.5 AUTOSAMPLER VIALS – Polypropylene 0.7-mL autosampler vials with polypropylene caps.

7.5.1 NOTE: Polypropylene vials and caps are necessary to prevent contamination of the sample from PTFE coated septa. However, polypropylene caps do not reseal, so evaporation occurs after injection. Thus, multiple injections from the same vial are not possible.

7.6 POLYPROPYLENE GRADUATED CYLINDERS – Suggested sizes include 25, 50, 100 and 1000-mL cylinders.

7.7 Auto Pipets – Suggested sizes include 5, 10, 25, 50, 100, 250, 500, 1000, 5000 and 10,000-µls.

7.8 PLASTIC PIPETS – Polypropylene or polyethylene disposable pipets.

7.9 Silanized glass wool (Sigma-Aldrich, Cat # 20411 or equivalent) – store in a clean glass jar and rinsed with methanol (2 times) prior to use.

7.10 Disposable syringe filter, 25-mm, 0.2-µm Nylon membrane, PALL/Acrodisc or equivalent

7.11 Variable volume pipettes with disposable HDPE or polypropylene tips (10 µL to 5 mL) used for preparation of calibration standards and spiked samples.

7.12 ANALYTICAL BALANCE – Capable of weighing to the nearest 0.0001 g.

7.13 ANALYTICAL BALANCE – Capable of weighing to the nearest 0.1 g.

7.14 SOLID PHASE EXTRACTION (SPE) APPARATUS FOR USING CARTRIDGES

7.14.1 SPE CARTRIDGES – (Waters Oasis WAX 150 mg, Cat # 186002493 or equivalent). The SPE sorbent must have a pKa above 8 so that it remains positively charged during the extraction.

7.14.1.1 Note: SPE cartridges with different bed volume (e.g., 500 mg) may be used; however, the laboratory must demonstrate that the bed volume does not negatively affect analyte absorption and elution, by performing the initial demonstration of capability analyses described in Section.

7.14.2 VACUUM EXTRACTION MANIFOLD – A manual vacuum manifold with large volume sampler for cartridge extractions, or an automatic/robotic sample preparation system designed for use with SPE cartridges, may be used if all QC requirements discussed in Section 9 are met. Extraction and/or elution steps may not be changed or omitted to accommodate the use of an automated system. Care must be taken with automated SPE systems to ensure the PTFE commonly used in these systems does not contribute to unacceptable analyte concentrations in the MB.

7.14.3 SAMPLE DELIVERY SYSTEM – Use of a polypropylene transfer tube system, which transfers the sample directly from the sample container to the SPE cartridge, is recommended, but not mandatory. Standard extraction manifolds come equipped with PTFE transfer tube systems. These can be replaced with 1/8” O.D. x 1/16” I.D. polypropylene or polyethylene tubing cut to an appropriate length to ensure no sample contamination from the sample transfer lines. Other types of non-PTFE tubing may be used provided it meets the MB and LCS QC requirements.

7.15 EXTRACT CONCENTRATION SYSTEM – Extracts are concentrated by evaporation with nitrogen using a water bath set no higher than 55 °C.

7.16 LABORATORY OR ASPIRATOR VACUUM SYSTEM – Sufficient capacity to maintain a vacuum of approximately 10 to 15 inches of mercury for extraction cartridges.

7.17 LIQUID CHROMATOGRAPHY (LC)/TANDEM MASS SPECTROMETER (MS/MS) WITH DATA SYSTEM

7.17.1 LC SYSTEM – Instrument capable of reproducibly injecting up to 10-µL aliquots and performing binary linear gradients at a constant flow rate near the flow rate used for development of this method (0.4 mL/min). The LC must be capable of pumping the water/methanol mobile phase without the use of a degasser which pulls vacuum on the mobile phase bottle (other types of degassers are acceptable). Degassers which pull vacuum on the mobile phase bottle will volatilize the ammonium acetate mobile phase causing the analyte peaks to shift to earlier retention times over the course of the analysis batch. The usage of a column heater is optional.

7.17.2 LC/TANDEM MASS SPECTROMETER – The LC/MS/MS must be capable of negative ion electrospray ionization (ESI) near the suggested LC flow rate of 0.4 mL/min. The system must be capable of performing MS/MS to produce unique product ions for the method analytes within specified retention time segments. A minimum of 10 scans across the chromatographic peak is required to ensure adequate precision.

7.17.3 DATA SYSTEM – An interfaced data system is required to acquire, store, reduce, and output mass spectral data. The computer software should have the capability of processing stored LC/MS/MS data by recognizing an LC peak within any given retention time window. The software must allow integration of the ion

abundance of any specific ion within specified time or scan number limits. The software must be able to calculate relative response factors, construct linear regressions or quadratic calibration curves, and calculate analyte concentrations.

7.17.4 INSTRUMENT COLUMNS

7.17.4.1 ANALYTICAL: C18 column, 1.7 µm, 50 x 2.1 mm (Waters Acquity UPLC® BEH or equivalent)

7.17.4.2 OPTIONAL GUARD COLUMN: (Phenomenex Kinetex® Evo C18 or equivalent)

8. Reagents and Standards

8.1 GASES, REAGENTS, AND SOLVENTS – Reagent grade or better chemicals must be used.

8.1.1 REAGENT WATER – Purified water which does not contain any measurable quantities of any method analytes or interfering compounds greater than 1/2 the RL for each method analyte of interest. Prior to daily use, at least 3 L of reagent water should be flushed from the purification system to rinse out any build-up of analytes in the system's tubing.

8.1.2 METHANOL (CH_3OH, CAS#: 67-56-1) – High purity, demonstrated to be free of analytes and interferences.

8.1.3 AMMONIUM ACETATE ($NH_4C_2H_3O_2$, CAS#: 631-61-8) – High purity, demonstrated to be free of analytes and interferences.

8.1.4 ACETIC ACID (H_3CCOOH, CAS#: 64-19-7) - High purity, demonstrated to be free of analytes and interferences.

8.1.5 1M AMMONIUM ACETATE/REAGENT WATER – High purity, demonstrated to be free of analytes and interferences.

8.1.6 2mM AMMONIUM ACETATE/METHANOL:WATER (5:95) – To prepare, mix 2 ml of 1M AMMONIUM ACETATE,1 ml ACETIC ACID and 50 ml METHANOL into l Liter of REAGENT WATER.

8.1.7 ACETONITRILE – UPLC grade or equivalent, store at room temperature

8.1.8 TOLUENE – HPLC grade or equivalent.

8.1.9 ACETONE – pesticide grade or equivalent

8.1.10 AMMONIUM ACETATE – (Caledon Ultra LC/MS grade or equivalent

8.1.11 AMMONIUM HYDROXIDE (NH_3, CAS#: 1336-21-6) – High purity, demonstrated to be free of analytes and interferences.

8.1.12 METHANOLIC AMMONIUM HYDROXIDE (0.3%) - add ammonium hydroxide (1 mL, 30%) to methanol (99 mL), store at room temperature, replace after 1 month

8.1.13 METHANOLIC AMMONIUM HYDROXIDE (1%) - add ammonium hydroxide (3.3 mL, 30%) to methanol (97 mL), store at room temperature, replace after 1 month

8.1.14 METHANOLIC AMMONIUM HYDROXIDE (2%) - add ammonium hydroxide (6.6 mL, 30%) to methanol (93.4 mL), store at room temperature, replace after 1 month

8.1.15 METHANOLIC POTASSIUM HYDROXIDE (0.05 M) – add 3.3 g of potassium hydroxide to 1 L of methanol, store at room temperature, replace after 3 months

8.1.16 METHANOL WITH 4% WATER, 1% AMMONIUM HYDROXIDE AND 0.625% ACETIC ACID - add ammonium hydroxide (3.3 mL, 30%), reagent water (1.7 mL) and acetic acid (0.625 mL) to methanol (92 mL), store at room temperature, replace after 1 month. This solution is used to prepare the instrument blank and calibration standards (Section 8.3.2).

8.1.17 FORMIC ACID – (greater than 96% purity or equivalent).

8.1.18 FORMIC ACID (aqueous, 0.1 M) - dissolve formic acid (4.6 g) in reagent water (1 L), store at room temperature, replace after 2 years

8.1.19 FORMIC ACID (aqueous, 0.3 M) - dissolve formic acid (13.8 g) in reagent water (1 L), store at room temperature, replace after 2 years

8.1.20 FORMIC ACID (aqueous, 5% v/v) - mix 5 mL formic acid with 95 mL reagent water, store at room temperature, replace after 2 years

8.1.21 FORMIC ACID (methanolic 1:1, 0.1 M formic acid/methanol) - mix equal volumes of methanol and 0.1 M formic acid, store at room temperature, replace after 2 years

8.1.22 FORMIC ACID (aqueous, 50% v/v) - mix 50 mL formic acid with 50 mL reagent water, store at room temperature, replace after 2 years

8.1.23 POTASSIUM HYDROXIDE – certified ACS or equivalent

8.1.24 CARBON - – EnviCarb® 1-M-USP or equivalent, verified by lot number before use, store at room temperature. Loose carbon allows for better adsorption of interferent organics. Note: The single-laboratory validation laboratory achieved better performance with loose carbon than carbon cartridges. Loose carbon will be used for the multi-laboratory validation to set statistically based method criteria.

8.1.25 NITROGEN – Used for the following purposes: Nitrogen aids in aerosol generation of the ESI liquid spray and is used as collision gas in some MS/MS instruments. The nitrogen used should meet or exceed instrument

manufacturer's specifications. In addition, Nitrogen is used to concentrate sample extracts (Ultra High Purity or equivalent).

8.1.26 ARGON – Used as collision gas in some MS/MS instruments. Argon should meet or exceed instrument manufacturer's specifications. Nitrogen gas may be used as the collision gas provided sufficient sensitivity (product ion formation) is achieved.

8.2 REFERENCE MATRICES - Matrices in which PFAS and interfering compounds are not detected by this method. These matrices are to be used to prepare the batch QC samples.

8.2.1 Reagent water - purified water, Type I

8.2.2 Solid reference matrix Ottawa Sand or equivalent

8.2.3 Tissue Reference matrix – Cod loin or other animal tissue demonstrated to be PFAS free

8.3 STANDARD SOLUTIONS – When a compound purity is assayed to be 96% or greater, the weight can be used without correction to calculate the concentration of the stock standard. PFAS analyte and IS standards commercially purchased in glass ampoules are acceptable; however, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene containers and are stored at ≤4 °C. Standards for sample fortification generally should be prepared in the smallest volume that can be accurately measured to minimize the addition of excess organic solvent to aqueous samples.

8.3.1 Stock standards and diluted stock standards are stored at ≤4 °C. Prepare a spiking solution, containing the method analytes listed in Table 1, in methanol from prime stocks. The solution is used to prepare the calibration standards and to spike the known reference QC samples that are analyzed with every batch. Quantitative standards containing a mixture of branched and linear isomers must be used for method analytes if they are commercially available. Currently, these include PFOS, PFHxS, NEtFOSAA, and NMeFOSAA.

8.3.2 Calibration standard solutions – A series of calibration solutions containing the target analytes and the Labeled extracted internal standards (EIS) and non-extracted internal standards (NIS) is used to establish the initial calibration of the analytical instrument. Table 4 represents the concentrations of the native, EIS and NIS analytes of the calibration curve. Calibration standard solutions are made using the solution described in section 8.1.16.

8.3.3 ISOTOPE DILUTION EXTRACTED INTERNAL STANDARD (EIS) – Isotopically labelled analogs of the target analytes to be used for the quantification of target analytes. EIS stock standard solutions are purchased in glass ampoules and are stored in accordance with the manufacturer's recommendations. The EIS stock solution to be used for the fortification of samples and QC in accordance with the isotope dilution procedure. Table 2 represents the EIS concentrations and nominal sample amounts added to each field sample and QC element.

8.3.4 ISOTOPE DILUTION NON-EXTRACTED INTERNAL STANDARDS (NIS) – Isotopically labelled analogs to be added post extraction for the measurement of EIS extraction efficiency and is added to the final volume of all extractions. Table 3 represents the EIS concentrations and nominal sample amounts added to each field sample and QC element.

9. Quality Control

9.1 Method Blank

9.1.1 A Method Blank (MB) is required with each extraction batch to confirm that potential background contaminants are not interfering with the identification or quantitation of method analytes. An aliquot of reagent water that is treated exactly as a sample including exposure to all glassware, equipment, solvents, reagents and standards. Prep and analyze a MB for every 20 samples. If the MB produces a peak within the retention time window of any analyte that would prevent the determination of that analyte, determine the source of contamination, and eliminate the interference before processing samples. Background contamination must be reduced to an acceptable level before proceeding. Background from method analytes or other contaminants that interfere with the measurement of method analytes must be below the RL. If the method analytes are detected in the MB at concentrations equal to or greater than this level, then all data for the problem analyte(s) must be considered invalid for all samples in the extraction batch.

9.2 Laboratory Control Sample (LCS)

9.2.1 Low Level LCS or OPR (Ongoing Precision Recovery) sample is required with each extraction batch. A LLCS or OPR samples is a method blank spiked with known quantities of analytes. The fortified concentration of the LCS is spiked at 2X the LOQ. Default limits of 70-130% of the true value may be used for analytes until sufficient replicates have been analyzed to generate proper control limits. Calculate the percent recovery (%*R*) for each analyte using the equation:

9.2.2 An LCS or OPR (Ongoing Precision Recovery) sample is required with each extraction batch. A LCS or OPR samples is a method blank spiked with known quantities of analytes. The fortified concentration of the LCS is spiked at the midpoint of the calibration curve. Default limits of 70-130% of the true value may be used for analytes until sufficient replicates have been analyzed to generate proper control limits. Calculate the percent recovery (%*R*) for each analyte using the equation:

$$\%R = \frac{A \times 100}{B}$$

Where:

A = measured concentration in the fortified sample
B =fortification concentration.

9.1.1 Where applicable, in the absence of additional sample volume required to perform matrix specific QC, LCSD's are to be extracted and analyzed. The concentration and analyte recovery criteria for the LCSD must be the same as the batch LCS The RSD's must fall within ≤30% of the true value for medium and high-level replicates, and ≤50% for low level replicates. Calculate the relative percent difference (RPD) for duplicate MSs (MS and MSD) using the equation:

$$RPD = \frac{|LCS - LCSD|}{(LCS + LCSD) / 2} \times 100$$

9.1.2 If the LCS and or LCSD results do not meet these criteria for method analytes, then all data for the problem analyte(s) must be considered invalid for all samples in the extraction batch.

9.3 Non-extracted Internal Standard Area (NIS)

Each time an initial calibration is performed, use the data from all the initial calibration standards used to meet the linearity test in Section 10.3.3.3 to calculate the mean area response for each of the NIS compounds, using the equation below.

$$\text{Mean Area}_{NISi} = \sum AREA_{NISi} / n$$

where:

AreaNISi = Area counts for the ith NIS, where i ranges from 1 to 7, for the seven NIS compounds listed in Table 1
n = The number of ICAL standards (the default value is n = 6). If a different number of standards is used for the ICAL, for example, to increase the calibration range or by dropping a point at either end of the range to meet the linearity criterion, change 6 to match the actual number of standards used)
Record the mean areas for each NIS for use in evaluating results for sample analyses. There is no acceptance criterion associated with the mean NIS area data.

9.4 Extracted Internal Standards (EIS)

9.4.1 The EIS standard is fortified into all samples, CCVs, MBs, LCSs, MSs, MSDs, FD, and FRB prior to extraction. It is also added to the CAL standards. The EIS is a means of assessing method performance from extraction to final chromatographic measurement. Calculate the recovery (%R) for the EIS using the following equation:

$$\%R = (A / B) \times 100$$

Where:

A = calculated EIS concentration for the QC or Field Sample
B = fortified concentration of the EIS.

9.4.2 Default limits of 50-150% may be used for analytes until sufficient replicates have been analyzed to generate proper control limits. A low or high percent recovery for a sample, blank, or CCV does not require discarding the analytical data but it may indicate a potential problem with future analytical data. When EIS recovery from a sample, blank, or CCV are outside control limits, check 1) calculations to locate possible errors, 2) standard solutions for degradation, 3) contamination, and 4) instrument performance. For CCVs and QC elements spiked with all target analytes, if the recovery of the corresponding target analytes meet the acceptance criteria for the EIS in question, the data can be used but all potential

biases in the recovery of the EIS must be documented in the sample report. If the associated target analytes do not meet the acceptance criteria, the data must be reanalyzed.

9.5 Matrix Spike (MS/MSD)

9.5.1 Analysis of an MS is prepared one per preparation batch (if required).

9.5.2 Aliquots of field samples that have been fortified with a known concentration of target compounds, prior to sample preparation and extraction, and analyzed to measure the effect of matrix interferences. The use of MS/MSD samples is generally not required in isotope dilution methods because the labeled compounds added to every sample provide more performance data than spiking a single sample in each preparation batch. Aliquots of field samples

9.5.3 Analyte recoveries may exhibit matrix bias. For samples fortified at or above their native concentration, recoveries should range between 50-150%. If the accuracy of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the LCS, the recovery is judged to be matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.6 Laboratory Duplicate

9.6.1 FIELD DUPLICATE OR LABORATORY FORTIFIED SAMPLE MATRIX DUPLICATE (FD or MSD) – Within each extraction batch (not to exceed 20 Field Samples), a minimum of one FD or MSD must be analyzed. Duplicates check the precision associated with sample collection, preservation, storage, and laboratory procedures. If method analytes are not routinely observed in Field Samples, an MSD should be analyzed rather than an FD.

9.6.2 Calculate the relative percent difference (*RPD*) for duplicate measurements (*FD1* and *FD2*) using the equation:

$$RPD = \frac{|FD1 - FD2|}{(FD1 + FD2) / 2} \times 100$$

9.6.3 RPDs for FDs should be ≤30%. Greater variability may be observed when FDs have analyte concentrations that are within a factor of 2 of the RL. At these concentrations, FDs should have RPDs that are ≤50%. If the RPD of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the CCV, the recovery is judged to be matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.6.4 If an MSD is analyzed instead of a FD, calculate the relative percent difference (RPD) for duplicate MSs (MS and MSD) using the equation:

$$RPD = \frac{|MS - MSD|}{(MS + MSD) / 2} \times 100$$

9.6.5 RPDs for duplicate MSs should be ≤30% for samples fortified at or above their native concentration. Greater variability may be observed when MSs are fortified at analyte concentrations that are within a factor of 2 of the RL. MSs fortified at these concentrations should have RPDs that are ≤50% for samples fortified at or above their native concentration. If the RPD of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the LCSD where applicable, the result is judged to be matrix biased. If no LCSD is present, the associated MS and MSD are to be re-analyzed to determine if any analytical has occurred. If the resulting RPDs are still outside control limits, the result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.7 Bile Salt Interference Check

9.7.1 The laboratory must analyze a TDCA standard after the initial calibration, prior to the analysis of tissue samples, to check for interferences caused by bile salts. If an interference is present, the chromatographic conditions must be modified to eliminate the interference from TDCA (e.g., changing the retention time of TDCA such that it falls outside the

9.8 Initial Calibration Verification (ICV)

9.8.1 After each ICAL, analyze a QCS sample from a source different from the source of the CAL standards. If a second vendor is not available, then a different lot of the standard should be used. The QCS should be prepared and analyzed just like a CCV. Acceptance criteria for the QCS are identical to the CCVs; the calculated amount for each analyte must be ± 30% of the expected value. If measured analyte concentrations are not of acceptable accuracy, check the entire analytical procedure to locate and correct the problem.

9.9 Instrument Sensitivity Check (ISC)

9.9.1 At the start of each 12-hour shift, analyze a standard at the LOQ. The signal-to-noise ratio of the ISC standard must be greater than or equal to 3:1. If the requirements cannot be met, the problem must be corrected before analyses can proceed

9.10 Continuing Calibration Verification (CCV)

9.10.1 CCV Standards must be analyzed at the beginning of each analysis batch, after every 10 Field Samples, and at the end of the analysis batch.

9.10.2 The recovery of native and isotopically labeled compounds for the CVs must be within 70 - 130%

9.10.3

9.11 Method-specific Quality Control Samples

9.11.1 Instrument Blank – During the analysis of a batch of samples, a solvent blank is analyzed after samples containing high level of target compounds (e.g., calibration, CV) to monitor carryover from the previous injection. The injection blank consists of the solution in

Section 8.1.16 fortified with the EIS and NIS for quantitation purposes.

9.12 Example Method Sequence

- INSTRUMENT BLANK
- INSTRUMENT SENSITIVITY CHECK
- CALIBRATION VERIFICATION STANDARD
- QUALITATIVE IDENTIFICATION STANDARDS
- TDCA STANDARD (only if analyzing tissues)
- INSTRUMENT BLANK
- METHOD BLANK
- LOW-LEVEL LCS/OPR
- OPR/LCS
- SAMPLE (10 or fewer)
- CALIBRATION VERIFICATION STANDARD
- INSTRUMENT BLANK
- SAMPLE (10 or fewer)
- CALIBRATION VERIFICATION STANDARD
- INSTRUMENT BLANK

10. Procedure

10.1 Equipment Set-up

10.1.1 This procedure may be performed manually or in an automated mode using a robotic or automatic sample preparation device. If an automated system is used to prepare samples, follow the manufacturer's operating instructions, but all extraction and elution steps must be the same as in the manual procedure. Extraction and/or elution steps may not be changed or omitted to accommodate the use of an automated system. If an automated system is used, the MBs should be rotated among the ports to ensure that all the valves and tubing meet the MB requirements.

10.1.2 Some of the PFAS's adsorb to surfaces, including polypropylene. Therefore, the aqueous sample bottles must be rinsed with the elution solvent whether extractions are performed manually or by automation. The bottle rinse is passed through the cartridge to elute the method analytes and is then collected.

10.1.3 The SPE cartridges and sample bottles described in this section are designed as single use items and should be discarded after use. They may not be refurbished for reuse in subsequent analyses.

10.1.4 All SPE apparatus, including manifolds, tubing and sample ports must be thoroughly rinsed following each use with 1% methanolic ammonium hydroxide, followed by Methanol and then DI water. Additionally, sample manifold ports and transfer tubing should be inspected regularly for signs of wear and/or discoloration. When such observations are made, the associated components should be replaced.

10.1.5 Prior to the start of any extraction, sample site information must be evaluated for any potentially high level PFAS concentrations or sample matrix irregularities that may impact the extraction process. If such samples are identified, aqueous samples may be pre-screened via direct aqueous injection prior to analysis to estimate the potential PFAS concentrations present.

10.1.6 To perform a direct aqueous injection (DAI) screen, the sample should be inverted several times to try and evenly disperse any organic matter present. A 1 ml aliquot (or less depending on the matrix) is to be taken from the parent sample, volume adjusted to 1 ml with reagent water if less than 1ml, fortified with EIS and NIS spiking solutions to match the concentrations of an extracted sample (typically 5 µl per 1 ml DAI), and then analyzed under the same analytical conditions as field samples.

10.2 Sample Preparation of Aqueous Samples

10.2.1 Samples are preserved, collected, and stored as presented in Section 6.

10.2.2 Determine sample volume. Weigh all samples to the nearest 1g. If visible sediment is present, centrifuge and decant into a new HDPE bottle and record the weight of the new container.

NOTE: Some of the PFAS's adsorb to surfaces, thus the sample volume may not be transferred to a graduated cylinder for volume measurement.

10.2.3 The MB, LCS and FRB may be prepared by measuring reagent water with a polypropylene graduated cylinder or filling an HDPE sample bottle to near the top.

10.2.4 Check that the pH is 6.5 ± 0.5. If necessary, adjust pH with 50% formic acid or ammonium hydroxide and 3% aqueous ammonium hydroxide. The extract is now ready for solid-phase extraction (SPE) and cleanup.

10.2.5 Add 20 µL of the EIS to each sample and QC, cap and invert to mix.

10.2.6 If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS. Cap and invert each sample to mix.

10.3 Sample Prep and Extraction Protocol for Soils, Solids and Sediments.

10.3.1 Homogenize and weigh 5 grams of sample (measured to the nearest hundredth of a gram) into a 50 ml polypropylene centrifuge tube. For laboratory control blanks and spikes, 5 grams of clean sand is used.

10.3.1.1 For Biosolids and other complex matrices, a small aliquot may be required due to co-extracted matrix interferences.

10.3.1.2 For batch QC samples using 5 g of reference solid, add 2.5 g of reagent water. The addition of reagent water to the sand provides a matrix closer in composition to real-world samples.

10.3.2 Add 20 µL of the EIS to each sample and QC.

10.3.3 If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS. Cap and invert each sample to mix.

10.3.4 Vortex the samples to evenly disperse the spiking solutions and allow to equilibrate for 30 minutes.

10.3.5 To all samples, add 10 ml of 0.3% methanolic ammonium hydroxide, cap, vortex for 25 seconds.

10.3.6 Following mixing, shake each sample for 30 minutes on a shaker table.

10.3.7 Centrifuge each sample at 2800RPM for 10 minutes.

10.3.8 Remove the supernatant and transfer to a clean 50 ml polypropylene centrifuge tube.

10.3.9 Repeat steps 10.3.4 to 10.3.7, with 15 ml of 0.3% methanolic ammonium hydroxide, combining the supernatants.

10.3.10 Add 5ml of 0.3% methanolic ammonium hydroxide to the sample, vortex for 25 seconds and centrifuge each sample at 2800RPM for 10 minutes.

10.3.11 Remove the supernatant and transfer to the same 50 ml polypropylene centrifuge tube containing eluates from the previous cycles.

10.3.12 Add 10 mg of carbon to the combined extract, mix by occasional hand shaking for no more than five minutes and then centrifuge at 2800 rpm for 10 minutes. Immediately decant the extract into a 50 ml polypropylene centrifuge tube.

10.3.13 Dilute to approximately 35 mL with reagent water. Samples containing more than 50% water may yield extracts that are greater than 35 mL in volume; therefore, do not add water to these. Determine the water content in the sample as follows (percent moisture is determined from the % solids):

Water Content in Sample = (Sample Weight * Percent moisture) / 100

10.3.14 Concentrate each extract at approximately 55 ºC with a gentle N2 flow to a final volume that is based on the water content of the sample (see table below). Allow extracts to concentrate for 10 minutes, then mix (by vortex if the volume is < 20. Continue concentrating and mixing every 5 minutes until the extract has been reduced to the required volume as specified in the table below. If the extract volume appears to stop dropping, the concentration must be stopped and the volume at which it was stopped recorded.

Water Content in Sample	Concentrated Final Volume
< 5 grams	15 ml
5-8 grams	15-20 ml
8-9 grams	20-22.5 ml
9-10 grams	22.5-25 ml

10.3.15 Add 40 - 50 mL of reagent water to the extract and vortex. Check that the pH is 6.5 ±0.5 and adjust as necessary with 50% formic acid or 30% ammonium

hydroxide, or with 5% formic acid and 3% aqueous ammonium hydroxide. The extracts are ready for SPE and cleanup.

10.4 Sample Prep and Extraction Protocol for Tissues.

10.4.1 Homogenize and weigh 2 grams of sample (measured to the nearest hundredth of a gram) into a 50 ml polypropylene centrifuge tube. For laboratory control blanks and spikes, 2 grams of clean tissue is used.

10.4.2 Add 20 µL of the EIS PDS to each sample and QC.

10.4.3 If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS. Cap and invert each sample to mix.

10.4.4 Add 10 mL of 0.05M KOH in methanol to each sample. Vortex to disperse the tissue then place tubes on a mixing table to extract for at 16 hours. Centrifuge at 2800 rpm for 10 minutes and collect the supernatant in a 50-mL polypropylene centrifuge tube.

10.4.5 Add 10 mL of acetonitrile to remaining tissue in the 50-mL centrifuge tube, vortex to mix and disperse the tissue. Sonicate for 30 minutes. Centrifuge at 2800 rpm for 10 minutes and collect the supernatant, adding it to the 50-mL centrifuge tube containing the initial extract.

10.4.6 Add 5 mL of 0.05M KOH in methanol to the remaining sample in each centrifuge tube. Vortex to disperse the tissue and hand mix briefly. Centrifuge at 2800 rpm for 10 minutes and collect the supernatant, adding it to the 50-mL centrifuge tube containing the first two extracts.

10.4.7 Add 10 mg of carbon to the combined extract, mix by occasional hand shaking over a period of no more than five minutes and then centrifuge at 2800 rpm for 10 minutes. Immediately decant the extract into a 50-mL centrifuge tube.

10.4.8 Add 1 mL of reagent water to each tube and concentrate each extract at approximately 55 ºC with a gentle N2 flow to a final volume of 2.5 ml.

10.4.9 Add reagent water to each evaporation/concentrator tube to dilute the extracts to 50 mL. Check that the pH = 6.5 ± 0.5 and adjust as needed with 50% formic acid, or ammonium hydroxide or with 5% formic acid and 3% aqueous ammonium hydroxide. The extracts are ready for SPE and cleanup.

10.5 SPE Extract: All matrices

10.5.1 Pack clean silanized glass wool to half the height of the WAX SPE cartridge barrel.

10.5.2 Pre-condition the cartridges by washing them with 3 X 5 mL of 1% methanolic ammonium hydroxide, discarding the wash volumes.

10.5.3 Rinse the cartridge with 5 mL of 0.3M formic acid, allowing the cartridge to drain using gravity only, discarding the rinse volume. Do not allow the cartridge to go dry

10.5.4 Adjust the vacuum so that the approximate flow rate is ~5 mL/min and load the sample across the cartridge. Do not allow the cartridge to go dry before all the sample has passed through.

10.5.5 Once all the sample has passed across the cartridge, rinse the walls of the reservoir with 2 X 5 mL reagent water, loading the rinse across the cartridge.

10.5.6 Rinse the walls of the reservoir with 5 mL of 1:1 0.1M formic acid/methanol and pass the rinse through the cartridge using vacuum. Dry the cartridge by pulling air through for 15 seconds.

10.5.7 Rinse the inside of the sample bottle with 5 mL of 1% methanolic ammonium hydroxide. Use vacuum to pull the elution solvent through the cartridge and into the collection tubes. When the cartridge bed and glass wool are submerged, stop the cartridge flow by closing the valve, keeping the sorbent bed and wool submerged.

10.5.8 Let the wetted sorbent bed and wool soak for 1 minute.

10.5.9 Open the cartridge valve and collect the eluate into a 15 ml polypropylene collection tube.

10.5.10 Add 25 µL of concentrated acetic acid to each sample eluted in the collection tubes and vortex to mix.

10.5.11 Add 10 mg of carbon to each sample and batch QC extract, using a 10-mg scoop. Handshake occasionally for no more than 5 minutes. It is important to minimize the time the sample extract is in contact with the carbon. Immediately vortex (30 seconds) and centrifuge at 2800 rpm for 10 minutes.

10.5.12 Add NIS solution to a clean collection tube. Place a syringe filter (25-mm filter, 0.2-µm nylon membrane) on a 5-mL polypropylene syringe. Take the plunger out and carefully decant the sample supernatant into the syringe barrel. Replace the plunger and filter the entire extract into the new collection tube containing the NIS.

10.5.13 Vortex to mix and transfer a portion of the extract into a .7-mL polypropylene LC vial for LC-MS/MS analysis. Cap the collection tube containing the remaining extract and store at 4 °C

10.6 Sample Volume Determination

10.6.1 If using weight to determine volume, weigh the empty bottle to the nearest 1 g and determine the sample weight by subtraction of the empty bottle weight from the original sample weight. Assume a sample density of 1.0 g/mL. In either case, the sample volume will be used in the final calculations of the analyte concentration.

10.7 Initial Calibration - Demonstration and documentation of acceptable initial calibration is required before any samples are analyzed. After the initial calibration is successful, a CCV is required at the beginning and end of each period in which analyses are performed, and after every tenth Field Sample.

10.7.1 ESI-MS/MS TUNE

10.7.1.1 Calibrate the mass scale of the MS with the calibration compounds and procedures prescribed by the manufacturer.

10.7.1.2 Optimize the [M-H]- or [M-CO_2]- for each method analyte by infusing approximately 0.5-1.0 µg/mL of each analyte (prepared in the initial mobile phase conditions) directly into the MS at the chosen LC mobile phase flow rate (0.4 mL/min). This tune can be done on a mix of the method analytes. The MS parameters (voltages, temperatures, gas flows, etc.) are varied until optimal analyte responses are determined.

The method analytes may have different optima requiring some compromise between the optima.

The Mass spec conditions found in Table 7 show the Sciex Triple Quad 5500+ operation conditions used in this method.

10.7.1.3 Optimize the product ion for each analyte by infusing approximately 0.5-1.0 µg/mL of each analyte (prepared in the initial mobile phase conditions) directly into the MS at the chosen LC mobile phase flow rate (approximately 0.4 mL/min). This tune can be done on a mix of the method analytes. The MS/MS parameters (collision gas pressure, collision energy, etc.) are varied until optimal analyte responses are determined. Typically, the carboxylic acids have very similar MS/MS conditions, and the sulfonic acids have similar MS/MS conditions.

The conditions found on table 5 are representative of expected tune optimizations for each analyte. If conditions other the ones close to the values provided in table 5 are achieved, the process should be re-performed and/or instrument maintenance performed to resolve the problem.

10.7.2 Establish LC operating parameters that optimize resolution and peak shape. Modifying the standard or extract composition to more aqueous content to prevent poor shape is not permitted.

Table 6 represents the operation conditions of a Sciex Exion LC system when running this method.

10.7.3 Inject 2µl of a mid-level CAL standard under LC/MS conditions to obtain the retention times of each method analyte. Divide the chromatogram into retention time windows each of which contains one or more chromatographic peaks. During MS/MS analysis, fragment a small number of selected precursor ions ([M-H]-) for the analytes in each window and choose the most abundant product ion. For maximum sensitivity, small mass windows of ±0.5 daltons around the product ion mass were used for quantitation.

10.7.4 Inject a mid-level CAL standard under optimized LC/MS/MS conditions to ensure that each method analyte is observed in its MS/MS window and that there are at least 10 scans across the peak for optimum precision.

NOTE: PFHxS, PFOS, NMeFOSAA, and NEtFOSAA have multiple chromatographic peaks using the LC conditions in Table 7 due to chromatographic resolution of the linear and branched isomers of these compounds. Most PFAS's are produced by two different processes. One process gives rise to linear PFAS's only while the other process produces both linear and branched isomers. Thus, both branched and linear PFAS's can potentially be found in the environment. For the aforementioned compounds that give rise to more than one peak, all the chromatographic peaks observed in the standard must be integrated and the areas totaled. Chromatographic peaks in a sample must be integrated in the same way as the CAL standard.

10.7.5 Prepare a set of CAL standards as outlined in table 5. The lowest concentration CAL standard must be at or below the LOQ.

10.7.6 The LC/MS/MS system is calibrated using the isotope dilution technique. Target analytes are quantitated against their isotopically labeled analog (Extracted Internal Standard) where commercially available. If a labeled analog is not

commercially available, the extracted internal standard with the closest retention time and /or closest chemical similarity is to be used. Use the LC/MS/MS data system software to generate a linear regression or quadratic calibration curve for each of the analytes. This curve must always be forced through zero and may be concentration weighted, if necessary. Forcing zero allows for a better estimate of the background levels of method analytes. A minimum of 5 levels are required for a linear calibration model and a minimum of 6 levels are required for a quadratic calibration model.

10.7.7 CALIBRATION ACCEPTANCE CRITERIA – A linear fit is acceptable if the calculated RSD or RSE for each target analyte is ≤20%. If linear or Quadratic regressions are used, coefficient of determination (r^2) values must be greater than 0.99. When quantitated using the initial calibration curve, each calibration point at or above the LOQ for each analyte must calculate to be within 70-130% of its true value. The calculate value of each EIS analyte must be within 50-150% of its true value. If these criteria cannot be met, corrective action is taken to reanalyze the CAL standards, restrict the range of calibration.

10.7.8 Bile salts interference check - The laboratory must analyze a TDCA standard after the initial calibration, prior to the analysis of tissue samples, to check for interferences caused by bile salts. If an interference is present, the chromatographic conditions must be modified to eliminate the interference from TDCA (e.g., changing the retention time of TDCA such that it falls outside the retention window for PFOS by at least one minute), and the initial calibration repeated.

10.8 CONTINUING CALIBRATION CHECK (CCV) – Minimum daily calibration verification is as follows. Verify the initial calibration at the beginning and end of each group of analyses, and after every tenth sample during analyses. In this context, a “sample” is considered to be a Field Sample. MBs, CCVs, LCSs, MSs, FDs FRBs and MSDs are not counted as samples. The beginning CCV of each analysis batch must be at or below the RL in order to verify instrument sensitivity prior to any analyses. If standards have been prepared such that all low CAL points are not in the same CAL solution, it may be necessary to analyze two CAL standards to meet this requirement. Alternatively, the analyte concentrations in the analyte PDS may be customized to meet these criteria. Subsequent CCVs should alternate between a medium and Low concentration CAL standard.

10.8.1 Inject an aliquot of the appropriate concentration CAL standard and analyze with the same conditions used during the initial calibration.

10.8.2 Calculate the concentration of each analyte and EIS in the CCV. The calculated amount for each native and EIS analyte for medium level CCVs must be within ± 30% of the true. If these conditions do not exist, then all data for the problem analyte must be considered invalid, and remedial action should be taken which may require recalibration. Any Field or QC Samples that have been analyzed since the last acceptable calibration verification should be reanalyzed after adequate calibration has been restored, with the following exception. If the CCV fails because the calculated concentration is greater than 130% for a particular method analyte, and Field Sample extracts show no detection for that method analyte, non-detects may be reported without re-analysis.

10.8.3 REMEDIAL ACTION – Failure to meet CCV QC performance criteria may require remedial action. Major maintenance, such as cleaning the electrospray probe, atmospheric pressure ionization source, cleaning the mass analyzer, replacing the LC column, etc., requires recalibration and verification of sensitivity by analyzing a CCV at or below the LOQ.

10.9 EXTRACT ANALYSIS

10.9.1 The same operating conditions used for the initial calibration and summarized in Tables 6 and 7 are to be used.

10.9.2 Prior to analysis of sample extracts, the Instrument mass calibration verification must be performed using standards whose mass range brackets the masses of interest and performed in the negative ion mode. The mass calibration is verified if the calculated mass is within ± .2 daltons of the specified mass.

10.9.3 Establish an appropriate retention time window for each analyte. This should be based on measurements of actual retention time variation for each method analyte in CAL standard solutions analyzed on the LC over the course of time. A value of plus or minus three times the standard deviation of the retention time obtained for each method analyte while establishing the initial calibration can be used to calculate a suggested window size. However, the experience of the analyst should weigh heavily on the determination of the appropriate retention window size.

10.9.4 Calibrate the system by either the analysis of a calibration curve or by confirming the initial calibration is still valid by analyzing a CCV.

10.9.5 Begin analyzing Field Samples, including QC samples, at their appropriate frequency by injecting the same size aliquots under the same conditions used to analyze the CAL standards.

10.9.6 For concentrations at or above the method LOQ, the total (branched and linear isomer) quantification ion response to the total (branched and linear isomer) confirmation ion response ratio must fall within ± 50% of the ratio observed in the midpoint initial calibration standard.

10.9.7 At the conclusion of data acquisition, use the same software that was used in the calibration procedure to identify peaks of interest in predetermined retention time windows. Use the data system software to examine the ion abundances of the peaks in the chromatogram. Identify an analyte by comparison of its retention time with that of the corresponding method analyte peak in a reference standard.

10.9.8 The analyst must not extrapolate beyond the established calibration range. If an analyte peak area exceeds the range of the initial calibration curve, the sample should be re-extracted with a reduced sample volume in order to bring the out of range target analytes into the calibration range. If a smaller sample size would not be representative of the entire sample, the following options are recommended. Re-extract an additional aliquot of sufficient size to ensure that it is representative of the entire sample. Spike it with a higher concentration of internal standard. Prior to LC/MS analysis, dilute the sample so that it has a concentration of internal standard equivalent to that present in the calibration standard. Then, analyze the diluted extract.3

10.9.9 In instances where re-extraction is not an option, dilute a subsample of the sample extract with 0.1% acetic acid by a factor no greater than 10x adjust the amount of the NIS in the diluted extract, and analyze the diluted extract. If the

responses for each EIS in the diluted extract meet the S/N and retention time, and the EIS recoveries from the analysis of the diluted extract are greater than 5%, then the compounds associated with those EISs may be quantified using isotope dilution. Use the EIS recoveries from the original analysis to select the dilution factor, with the objective of keeping the EIS recoveries in the dilution above that 5% lower limit. If the adjusted EIS recoveries are below 5%, the dilution is assumed invalid. If the adjusted EIS recoveries are greater than 5%, adjust the compound concentrations, detection limits, and minimum levels to account for the dilution.

11. Data Evaluation, Calculations and Reporting

11.1 Complete chromatographic resolution is not necessary for accurate and precise measurements of analyte concentrations using MS/MS. In validating this method, concentrations were calculated by measuring the product ions listed in Table 9.

11.2 Calculate analyte concentrations using the multipoint calibration established in Section 10.9. Do not use daily calibration verification data to quantitate analytes in samples. Adjust final analyte concentrations to reflect the actual sample volume determined in Section 10.8

C_{ex} = (Area of target analyte * Concentration of Labeled analog) / (area of labeled analog * CF)

C_s = (C_{ex} / sample volume in ml) * 1000

C_{ex} = The concentration of the analyte in the extract
CF = calibration factor from calibration.

11.3 Prior to reporting the data, the chromatogram should be reviewed for any incorrect peak identification or poor integration.

11.4 PFHxS, PFOS, PFOA, NMeFOSAA, and NEtFOSAA have multiple chromatographic peaks using the LC conditions in Table 7 due to the linear and branch isomers of these compounds (Sect. 10.10.4.). The areas of all the linear and branched isomer peaks observed in the CAL standards for each of these analytes must be summed and the concentrations reported as a total for each of these analytes.

11.5 Calculations must utilize all available digits of precision, but final reported concentrations should be rounded to an appropriate number of significant figures (one digit of uncertainty), typically two, and not more than three significant figures.

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

12.1 Section 9.0 outlines sample batch QC acceptance criteria. If non-compliant organic compound results are to be reported, the Organic Section Head and/or the Laboratory Director, and the Operations Manager must approve the reporting of these results. The laboratory Project Manager shall be notified and may choose to relay the non-compliance to the client, for approval, or other corrective action, such as re-sampling and re-analysis. The analyst, Data Reviewer, or Department Supervisor performing the secondary review initiates the project narrative, and the narrative must clearly document the non-compliance and provide a reason for acceptance of these results.

12.2 All results for the organic compounds of interest are reportable without qualification if extraction and analytical holding times are met, preservation requirements (including cooler temperatures) are met, all QC criteria are met, and matrix interference is not suspected during extraction or analysis of the samples. If any of the below QC parameters are not met, all associated samples must be evaluated for re-extraction and/or re-analysis.

13. Method Performance

13.1 Detection Limit Study (DL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

13.1.1 The laboratory follows the procedure to determine the DL, LOD, and/or LOQ as outlined in Alpha SOP ID 1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

13.2.1 Refer to Alpha SOP ID 1739 for further information regarding IDC/DOC Generation.

13.2.2 The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

14.1 Refer to Alpha's Chemical Hygiene Plan and Hazardous Waste Management and Disposal SOP for further pollution prevention and waste management information.

14.2 This method utilizes SPE to extract analytes from water. It requires the use of very small volumes of organic solvent and very small quantities of pure analytes, thereby minimizing the potential hazards to both the analyst and the environment as compared to the use of large volumes of organic solvents in conventional liquid-liquid extractions.

14.3 The analytical procedures described in this method generate relatively small amounts of waste since only small amounts of reagents and solvents are used. The matrices of concern are finished drinking water or source water. However, laboratory waste management practices must be conducted consistent with all applicable rules and regulations, and that laboratories protect the air, water, and land by minimizing and controlling all releases from fume hoods and bench operations. Also, compliance is required with any sewage discharge permits and regulations, particularly the hazardous waste identification rules and land disposal restrictions.

15. Referenced Documents

Chemical Hygiene Plan – ID 2124

SOP ID 1732 Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) SOP

SOP ID 1739 Demonstration of Capability (DOC) Generation SOP

SOP ID 1728 Hazardous Waste Management and Disposal SOP

16. Attachments

Table 1: Names, Abbreviations, and CAS Registry Numbers for Target PFAS, Extracted Internal Standards and Non-extracted Internal Standards

Parameter	Acronym	CAS
PER- and POLYFLUOROALKYLETHER CARBOXYLIC ACIDS (PFECAs)		
Tetrafluoro-2-(heptafluoropropoxy)propanoic acid	HFPO-DA	13252-13-6
4,8-dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
PERFLUOROALKYLCARBOXILIC ACIDS (PFCAs)		

Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoroheptanoic acid	PFHpA	375-85-9
Perfluorooctanoic acid	PFOA	335-67-1
Perfluorononanoic acid	PFNA	375-95-1
Perfluorodecanoic acid	PFDA	335-76-2
Perfluoroundecanoic acid	PFUnA	2058-94-8
Perfluorododecanoic acid	PFDoA	307-55-1
Perfluorotridecanoic acid	PFTrDA	72629-94-8
Perfluoorotetradecanoic acid	PFTeDA	376-06-7
PERFLUOROALKYL SULFONIC ACIDS (PFASs)		
Perfluorobutanesulfonic acid	PFBS	375-73-5
Perfluoropentanesulfonic acid	PFPeS	2706-91-4
Perfluorohexanesulfonic acid	PFHxS	355-46-4
Perfluoroheptanesulfonic acid	PFHpS	375-92-8
Perfluorooctanesulfonic acid	PFOS	1763-23-1
Perfluorononanesulfonic acid	PFNS	68259-12-1

Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanesulfonic acid	PFDoS	79780-39-5
CHLORO-PERFLUOROALKYLSULFONATE		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	763051-92-9
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	113507-82-7
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	9Cl-PF3ONS	756426-58-1
FLUOROTELOMER CARBOXYLIC ACIDS		
3-Perfluoropropyl propanoic acid	3:3FTCA	356-02-5
2H,2H,3H,3H-Perfluorooctanoic acid	5:3FTCA	914637-49-3
Perfluoroheptyl propanoic acid	7:3FTCA	812-70-4
PERFLUOROOCTANESULFONAMIDES		
Perfluorooctanesulfonamide	PFOSA	754-91-6
N-methylperfluoro-1-octanesulfonamide	NMeFOSA	31506-32-8
N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	4151-50-2
PERFLUOROCTANE SULFONAMIDE ETHANOLS		
N-Methyl perfluorooctanesulfonamidoethanol	NMeFOSE	24448-09-7
N-ethyl perfluorooctanesulfonamidoethanol	NEtFOSE	1691-99-2
TELOMER SULFONIC ACIDS		

1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	4:2FTS	757124-72-4
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	6:2FTS	27619-97-2
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	8:2FTS	39108-34-4
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS		
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA	2355-31-9
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA	2991-50-6
PERFLUOROETHER AND POLYETHER CARBOXYLIC ACIDS		
Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	113507-82-7
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6

Table 2: Stock and Nominal Extracted Internal Standard Concentrations

Isotope Labeled Standard	Conc. of EIS Stock (ng/mL)	Nominal amount of EIS added to extracts (ng)
M4PFBA	2000	40
M5PFPeA	1000	20
M5PFHxA	500	10
M4PFHpA	500	10
M8PFOA	500	10
M9PFNA	250	5
M6PFDA	250	5
M7PFUdA	250	5
MPFDoA	250	5
M2PFTeDA	250	5
M3PFBS	466	9.32
M3PFHxS	474	9.48
M8PFOS	479	9.58
M2-4:2FTS	938	18.8

Isotope Labeled Standard	Conc. of EIS Stock (ng/mL)	Nominal amount of EIS added to extracts (ng)
M2-6:2FTS	951	19
M2-8:2FTS	960	19.2
M8FOSA	500	10
d3-N-MeFOSA	500	10
d5-N-EtFOSA	500	10
d3-N-MeFOSAA	1000	20
d5-N-EtFOSAA	1000	20
d7-N-MeFOSE	5000	100
d9-N-EtFOSE	5000	100
M3HFPO-DA	2000	40

Table 3: Stock and Nominal Non-Extracted Internal Standard Concentrations

Isotope Labeled Standard	Conc. of EIS Stock (ng/mL)	Nominal amount of EIS added to extracts (ng)
M3PFBA	1000	40
M2PFHxA	500	10
M4PFOA	500	10
M5PFNA	250	5
M2PFDA	250	5
18O2PFHxS	474	9.48
M4PFOS	479	9.58

Table 4: Initial Calibration levels and Concentrations

Analyte	Cal A	Cal B (LOQ)	CAL C	Cal D	Cal E (CCV)	Cal F	Cal G	Cal H	Cal I
PFBA	.4	.8	2	5	10	20	50	250	500
PFPeA	.2	.4	1	2.5	5	10	25	125	250
PFHxA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFHpA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFOA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFNA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFDA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFUnA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFDoA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFTrDA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFTA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFBS	0.089	0.177	0.444	1.11	2.22	4.44	11.1	55.4	111
PFPeS	0.094	0.188	0.471	1.18	2.35	4.71	11.8	58.8	118

PFHxS	0.091	0.183	0.457	1.14	2.29	4.57	11.4	57.1	114
PFHpS	0.095	0.191	0.477	1.19	2.38	4.77	11.9	59.6	119
PFOS	0.093	0.186	0.464	1.16	2.32	4.64	11.6	58	116
PFNS	0.096	0.192	0.481	1.20	2.41	4.81	12	60.1	120
PFDS	0.097	0.193	0.483	1.21	2.41	4.83	12.1	60.3	121
PFDOS	0.097	0.194	0.485	1.21	2.43	4.85	12.1	60.6	121.
4:2FTS	0.375	0.75	1.88	4.69	9.38	18.8	46.9	234	469
6:2FTS	0.38	0.76	1.9	4.75	9.5	19	47.5	238	475
8:2FTS	0.384	0.768	1.92	4.8	9.6	19.2	48	240	480
PFOSA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
NMeFOSA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
NEtFOSA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
NMeFOSAA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
NEtFOSAA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
NMeFOSE	1	2	5	12.5	25	50	125	625	1250
NEtFOSE	1	2	5	12.5	25	50	125	625	1250
HFPO-DA	.4	.8	2	5	10	20	50	250	500
ADONA	0.378	0.756	1.89	4.73	9.45	18.9	47.3	236	473
9Cl-PFONS	0.374	0.748	1.87	4.68	9.35	18.7	46.8	234	468
11Cl-PFOUdS	0.378	0.756	1.89	4.73	9.45	18.9	47.3	236	473
PFMPA	.2	.4	1	2.5	5	10	25	125	250
PFMBA	.2	.4	1	2.5	5	10	25	125	250
PFEESA	0.178	0.356	0.89	2.23	4.45	8.9	22.3	111	223
NFDHA	.2	.4	1	2.5	5	10	25	125	250
3:3FTCA	.5	1	2.5	6.25	12.5	25	62.5	312	624
5:3FTCA	2.5	5	12.5	31.3	62.5	125	312	1560	3120
7:3FTCA	2.5	5	12.5	31.3	62.5	125	312	1560	3125
M4PFBA	10	10	10	10	10	10	10	10	10
M5PFPeA	5	5	5	5	5	5	5	5	5
M5PFHxA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
M4PFHpA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
M8PFOA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
M9PFNA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
M6PFDA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
M7PFUdA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
MPFDoA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25

M2PFTeDA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
M3PFBS	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33
M3PFHxS	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
M8PFOS	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
M2-4:2FTS	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69
M2-6:2FTS	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.76
M2-8:2FTS	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
M8FOSA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
d3-N-MeFOSA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
d5-N-EtFOSA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
d3-N-MeFOSAA	5	5	5	5	5	5	5	5	5
d5-N-EtFOSAA	5	5	5	5	5	5	5	5	5
d7-N-MeFOSE	25	25	25	25	25	25	25	25	25
d9-N-EtFOSE	25	25	25	25	25	25	25	25	25
M3HFPO-DA	10	10	10	10	10	10	10	10	10
M3PFBA	5	5	5	5	5	5	5	5	5
M2PFHxA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
M4PFOA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
M5PFNA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
M2PFDA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
18O2PFHxS	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
M4PFOS	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4

Table 5: Expected Mass Transitions and instrument conditions.

Q1	Q2	Analyte	DP Volts	CE Volts
213.032	169.022	PFBA	-50	-14
263.039	219.03	PFPeA	-55	-12
263.039	68.9	PFPeA_2	-55	-55
313.047	269.037	PFHxA	-45	-12
313.047	119	PFHxA_2	-45	-28
363.055	319.045	PFHpA	-60	-12
363.055	169.022	PFHpA_2	-60	-24
413.063	369.053	PFOA	-65	-14
413.063	169.022	PFOA_2	-65	-23
463.071	419.061	PFNA	-70	-14
463.071	219.03	PFNA_2	-70	-24

513.078	469.069	PFDA	-80	-16
513.078	219.03	PFDA_2	-80	-30
563.086	519.076	PFUnA	-85	-18
563.086	269.037	PFUnA_2	-85	-25
613.094	569.084	PFDoA	-85	-18
613.094	319.045	PFDoA_2	-85	-28
663.102	619.092	PFTrDA	-85	-20
663.102	169.022	PFTrDA_2	-85	-36
713.11	669.1	PFTA	-70	-22
713.11	169.022	PFTA_2	-70	-38
299.092	80.062	PFBS	-100	-65
299.092	99.061	PFBS_2	-100	-40
349.1	80.062	PFPeS	-100	-75
349.1	99.061	PFPeS_2	-100	-60
399.107	80.062	PFHxS	-120	-75
399.107	99.061	PFHxS_2	-120	-80
449.115	80.062	PFHpS	-140	-95
449.115	99.061	PFHpS_2	-140	-80
499.113	80.062	PFOS	-145	-108
499.113	99.061	PFOS_2	-145	-85
549.131	80.062	PFNS	-180	-100
549.131	99.061	PFNS_2	-180	-100
599.139	80.062	PFDS	-170	-110
599.138	99.061	PFDS_2	-170	-100
699.154	80.062	PFDoS	-160	-150
699.154	99.061	PFDoS_2	-160	-130
327.146	307.139	4:2FTS	-100	-28
327.146	81.07	4:2FTS_2	-100	-50
427.161	407.155	6:2FTS	-120	-33
427.161	81.07	6:2FTS_2	-120	-65
527.177	507.17	8:2FTS	-140	-39
527.177	81.07	8:2FTS_2	-140	-85
498.146	78.07	FOSA	-150	-90
498.146	478	FOSA_2	-150	-35
512.163	219.03	NMeFOSA	-130	-35
512.163	169.022	NMeFOSA_2	-130	-40
526.192	219.03	NEtFOSA	-140	-35
526.192	169.022	NEtFOSA_2	-140	-35
570.202	419.061	NMeFOSAA	-100	-28

570.202	483	NMeFOSAA_2	-100	-22
584.229	419.061	NEtFOSAA	-100	-28
584.229	526.192	NEtFOSAA_2	-100	-38
616.1	58.9	NMeFOSE	-90	-70
630	58.9	NEtFOSE	-80	-75
285.035	169.022	HFPO-DA	-60	-12
285.035	184.9	HFPO-DA_2	-60	-18
377.06	251.028	ADONA	-65	-18
377.06	84.8	ADONA_2	-65	-48
530.8	351.05	9Cl-PFONS	-130	-38
532.8	353	9Cl-PFONS_2	-130	-38
630.9	451.031	11Cl-PFOUdS	-145	-41
632.9	452.9	11Cl-PFOUdS_2	-145	-41
241.085	177.069	3:3FTCA	-60	-12
241.085	117	3:3FTCA_2	-60	-50
341.101	237.072	5:3FTCA	-70	-20
341.101	217	5:3FTCA_2	-70	-35
441.117	316.9	7:3FTCA	-85	-30
441.117	337.088	7:3FTCA_2	-85	-20
315.093	135.013	PFEESA	-100	-35
315.093	82.9	PFEESA_2	-100	-25
229.032	85.006	PFMPA	-40	-25
279.042	85.006	PFMBA	-45	-25
295.032	201	NFDHA	-30	-15
295.032	84.9	NFDHA_2	-30	-40
217.001	171.999	MPFBA	-50	-14
268.001	222.999	M5PFPeA	-55	-12
318.009	273.007	M5PFHxA	-45	-12
367.024	322.022	M4PFHpA	-60	-12
421.002	376	M8PFOA	-65	-14
472.002	427	M9PFNA	-70	-14
519.033	474.03	M6PFDA	-80	-16
570.033	525.031	M7-PFUdA	-85	-18
615.079	570.033	MPFDoA	-85	-18
715.094	670.092	M2PFTeDA	-70	-22
302.069	80.062	M3PFBS	-100	-65
402.084	80.062	M3PFHxS	-120	-74
507.062	80.062	M8PFOS	-145	-85
329.13	81.07	M2-4:2FTS	-100	-50

429.162	81.07	M2-6:2FTS	-120	-65
529.162	81.07	M2-8:2FTS	-140	-85
506.077	78.07	M8FOSA	-150	-90
515.183	219.03	d3-NMeFOSA	-130	-35
531.222	219.03	d5-NEtFOSA	-140	-35
573.22	419.061	d3-NMeFOSAA	-75	-28
589.259	419.061	d5-NEtFOSAA	-90	-28
623.2	58.9	d7-NMeFOSE	-100	-28
639.2	58.9	d9-NEtFOSE	-100	-28
287.02	169.022	M3HFPO-DA	-60	-12
216.009	171.999	M3PFBA	-50	-14
315.032	270.03	M2PFHxA	-45	-12
417.032	372.03	M4PFOA	-65	-14
468.032	423.03	M5PFNA	-70	-14
515.063	470.061	M2PFDA	-80	-16
403.107	84.062	18O2-PFHxS	-120	-74
503.093	80.062	M4PFOS	-145	-85

Table 6: LC Method Conditions

Time (min)	2 mM Ammonium Acetate (5:95 CH/H_2O)	100% Acetonitrile	Gradient Curve
Initial	100.0	0.0	0
.2	100.0	0.0	2
4	70	30	7
7	45	55	8
9	25	80	8
10	5	95	6
10.4	98	2	10
11.8	100	0	7
12	100	0	1
Waters Aquity UPLC ® BEHC_{18} 2.1 x 50 mm packed with 1.7 µm BEH C_{18} stationary phase Flow rate of 0.4 mL/min 2 µL injection			

Table 7: ESI-MS Method Conditions

ESI Conditions	
Polarity	Negative ion
Curtain Gas	30
Collision gas	9
Ion Spray Voltage	-4500
Desolvation gas temp.	500 ºC
Ion Source Gas 1	30
Ion Source Gas 2	50
Entrance Poitential	-10
Exic Cell Potential	-11

Table 8. Reporting limits by Matrix

Compound	Aqueous (ng/L)	Solid (ng/g)	Tissue (ng/g)
PFBA	6.4	0.8	2
PFPeA	3.2	0.4	1
PFHxA	1.6	0.2	0.5
PFHpA	1.6	0.2	0.5
PFOA	1.6	0.2	0.5
PFNA	1.6	0.2	0.5
PFDA	1.6	0.2	0.5
PFUnA	1.6	0.2	0.5
PFDoA	1.6	0.2	0.5
PFTrDA	1.6	0.2	0.5
PFTA	1.6	0.2	0.5
PFBS	1.6	0.2	0.5
PFPeS	1.6	0.2	0.5
PFHxS	1.6	0.2	0.5
PFHpS	1.6	0.2	0.5
PFOS	1.6	0.2	0.5
PFNS	1.6	0.2	0.5
PFDS	1.6	0.2	0.5
PFDoS	1.6	0.2	0.5
4:2FTS	6.4	0.8	2
6:2FTS	6.4	0.8	2
8:2FTS	6.4	0.8	2
FOSA	1.6	0.2	2
NMeFOSA	1.6	0.2	0.5

NEtFOSA	1.6	0.2	0.5
NMeFOSAA	1.6	0.2	0.5
NEtFOSAA	1.6	0.2	0.5
NMeFOSE	16	2	5
NEtFOSE	16	2	5
HFPO-DA	6.4	0.8	2
ADONA	6.4	0.8	2
9Cl-PFONS	6.4	0.8	2
11Cl-PFOUdS	6.4	0.8	2
3:3FTCA	8	1	2.5
5:3FTCA	40	5	12.5
7:3FTCA	40	5	12.5
PFEESA	3.2	0.4	1
PFMPA	3.2	0.4	1
PFMBA	3.2	0.4	1
NFDHA	3.2	0.4	1

Analysis of

Chlorinated Herbicides by GC Using Methylation Derivatization

Reference Methods: **EPA 8151A,** SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Update III, 1997.

MA BWS-CAM Section VC, Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Method 8151A, for the Massachusetts Contingency Plan (MCP). Revision 1. July 1, 2010.

SW-846 Chlorinated Herbicides by 8151, State of Connecticut Department of Environmental Protection Reasonable Confidence Protocol **(RCP)**, Version 2.0, July 2006

1. Scope and Application

Matrices: Aqueous, soil and waste.

Definitions: See Alpha Laboratories Quality Manual Appendix A

Specifically, Method 8151A may be used to determine the following compounds:

Parameter		CAS No.[a]
2,4-D	[1, 2, 3]	94-75-7
2,4-DB		94-82-6
2,4,5-TP (silvex)	[1, 2, 3]	93-72-1
2,4,5-T	[1, 2]	93-76-5
Dalapon		75-99-0
Dicamba		1918-00-9
Dichloroprop		120-36-5
Dinoseb		88-85-7
MCPA		94-74-6
MCPP		93-65-2

[a] Chemical Abstract Service Registry Number

[1] RCRA List

[2] APA List

[3] TCLP List

Method 8151A is a capillary gas chromatographic (GC) method for determining certain chlorinated acid herbicides and related compounds in aqueous, soil and waste matrices.

Because these compounds are produced and used in various forms (i.e., acid, salt, ester, etc.), Method 8151A describes a hydrolysis step than can be used to convert herbicide esters into the acid form prior to analysis. Herbicide esters generally have a half-life of less than one week in soil.

When Method 8151A is used to analyze unfamiliar samples, compound identifications should be supported by at least one additional qualitative technique. Section 10.1 provides gas

chromatograph/mass spectrometer (GC/MS) criteria appropriate for the qualitative confirmation of compound identifications.

The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one of the following laboratory personnel before performing the modification: Area Supervisor, Laboratory Services Manager, Laboratory Director, or Quality Assurance Officer.

This method is restricted to use by or under the supervision of analysts experienced in the use of gas chromatography and skilled in the interpretation of gas chromatograms. Only experienced analysts should be allowed to work with diazomethane due to the potential hazards associated with its use (explosive, carcinogenic). Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

2. Summary of Method

This SOP for Method 8151A details gas chromatographic conditions for the analysis of chlorinated acid herbicides in water, soil, and waste samples. The hydrolysis of esters is also described in SOP number 1964.

Water, soil, and waste samples are extracted with diethyl ether and then derivatized with diazomethane. The derivatives are determined by gas chromatography with an electron capture detector (GC/ECD). The results are reported as acid equivalents.

3. Reporting Limits

The sensitivity of Method 8151A depends on the level of interferences, in addition to instrumental limitations. Table 1 lists the estimated GC/ECD detection limits that can be obtained in aqueous and soil matrices in the absence of interferences. Detection limits for a typical waste sample should be greater.

4. Interferences

4.1 Refer to Method 8000 for instrumental interferences.

4.2 Method interferences may be caused by contaminants in solvents, reagents, glassware, and other sample processing hardware that lead to discrete artifacts or elevated baselines in gas chromatograms. All these materials must be routinely demonstrated to be free from interferences under the conditions of the analysis, by analyzing reagent blanks.

4.2.1 Glassware must be scrupulously cleaned. Clean each piece of glassware as soon as possible after use by rinsing it with the last solvent used in it. This should be followed by detergent washing with hot water and rinses with tap water, then with organic-free reagent water. Glassware should be solvent-rinsed with acetone and pesticide-quality hexane. After rinsing and drying, glassware should be sealed and stored in a clean environment to prevent any accumulation of dust or other contaminants. Store glassware inverted or capped with aluminum foil. Immediately prior to use, glassware should be rinsed with the next solvent to be used.

4.2.2 The use of high purity reagents and solvents helps to minimize interference problems.

4.3 Matrix interferences may be caused by contaminants that are coextracted from the sample. The extent of matrix interferences will vary considerably from waste to waste, depending upon the nature and diversity of the waste being sampled.

4.4 Organic acids, especially chlorinated acids, cause the most direct interference with the determination by methylation. Phenols, including chlorophenols, may also interfere with this procedure.

4.5 Alkaline hydrolysis and subsequent extraction of the basic solution removes many chlorinated hydrocarbons and phthalate esters that might otherwise interfere with the electron capture analysis. However, hydrolysis may result in the loss of Dinoseb and the formation of aldol condensation products if any residual Acetone remains from the extraction of solids.

4.6 The herbicides, being strong organic acids, react readily with alkaline substances and may be lost during analysis. Therefore, glassware must be acid-rinsed and then rinsed to constant pH with organic-free reagent water. Sodium Sulfate must be acidified.

4.7 Sample extracts must be dry prior to methylation otherwise poor recoveries will be obtained.

5. Health and Safety

The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material data handling sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

5.1 Lab coats, safety glasses, and gloves must be worn when handling supplies, samples, extracts, standards or solvents, and when washing glassware.

5.2 All extract concentration steps must be performed in extraction hoods. All solvent and extract transfers must also be handled in a hood.

5.3 All expired stock standards, working standards, and spent sample extracts must be placed into the waste bucket in the laboratory for future disposal by the Hazardous Waste Manager. The container must be properly labeled with hazard warning labels indicating the container contents.

5.4 Bottles containing flammable solvents must be stored in the flammables cabinet or in the vented cabinets found under the hoods. All ether bottles are to be checked for peroxide immediately upon opening.

5.5 All waste solvents must be transferred to the satellite waste storage containers located in the extraction laboratory. Separate containers are provided for chlorinated and non-chlorinated solvents and must be used accordingly. Under no circumstances are solvents to be poured down the sink drains.

5.6 Inspect all glassware prior to use. Do not use any glassware that is chipped or cracked if it could present a safety hazard. Damaged glassware is put aside for repair; otherwise the piece is discarded. A number is etched onto each KD concentrator tube to keep track of calibration (Refer to SOP/08-04, KD Tube Calibration).

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection

Aqueous samples are collected in two one-liter amber glass containers. Soil samples are collected in 8oz. glass jars.

6.2 Sample Preservation

Both aqueous and soil/solid samples are stored in refrigerators to maintain a temperature of 2 – 6 °C.

6.3 Sample Shipping

No special shipping requirements.

6.4 Sample Handling

Both aqueous and soil/solid samples and extracts are stored under refrigeration (2 – 6 ºC) and protected from light. Aqueous samples must be extracted within 7 days from the time of collection; soil samples, within 14 days from collection. Sample extracts must be analyzed within 40 days following extraction.

After the extraction is completed, the sample extract is stored in a stoppered KD tube before being transferred to a crimp-top or screw cap vial for analysis and long-term storage.

7. Equipment and Supplies

7.1 Gas Chromatograph, Agilent 7890 (or equivalent): An analytical system complete with gas chromatograph configured for split-splitless injection and all required accessories including syringes, analytical columns, gases, electron capture detectors (ECD), and data system.

7.2 GC Columns: Alpha utilizes dual-column analyses. The dual-column approach involves either a single injection that is split between two columns that are mounted in a single gas chromatograph, or dual injections of the split extract on a single GC equipped with two columns. Typical column pairs used are listed below. Other columns may be used as long as method performance criteria can be met.

Column Pair:

STX-CLP: Cat.: #11546 from Restek or equivalent, 30m, 0.32mm, 0.32 µm
STX-CLPII: Cat.: #11444 from Restek or equivalent, 30m, 0.32mm, 0.25µm

7.3 Guard Column: Cat. #10027 from Restek or equivalent; 5m, 0.32mm

7.4 Class “A” Volumetric Flasks: 10mL and 25mL (and other volumes), for standards preparation

7.5 Microsyringes: 10 µL – 1000 µL

7.6 Gooseneck splitless injecton liner, Cat #23303 from Restek or equivalent

7.7 Universal “Y” Press-tight tee split: Cat. #20406 from Restek or equivalent **/ Siltek MXT Connector:** Cat. #21388 from Restek or equivalent

8. Reagents and Standards

Reagent grade chemicals shall be used in all tests. Unless otherwise indicated, it is intended that all reagents shall conform to the specifications of the Committee on Analytical Reagents of the American Chemical Society, where such specifications are available. Other grades may be used, provided it is first ascertained that the reagent is of sufficiently high purity to permit its use without lessening the accuracy of the determination.

NOTE: Store the standard solutions (stock, composite, calibration, internal, and surrogate) at 4±2 °C in Teflon(R)-sealed containers in the dark. When a large volume of standard is prepared, aliquots of that lot are stored in individual small vials.

All stock standard solutions must be replaced ***after one year or sooner*** if routine QC tests indicate a problem.

All other standard solutions must be replaced ***after six months or sooner*** if routine QC indicates a problem.

8.1 Reagent water: All references to water in this method refer to reagent water from Alpha's DI water treatment system.

8.2 n-Hexane: Pesticide grade or equivalent

8.3 Acetone: Pesticide grade or equivalent

8.4 Internal Standard Stock Solution: 4,4'-dibromooctafluorobiphenyl (DBOB) (AccuStandard, Cat # M-8151-IS) is used as the internal standard.

- **Working Internal Standard Solution**: To a 10mL volumetric flask, add 1mL of the 4,4'-dibromooctafluorobiphenyl (DBOB) (AccuStandard, Cat # M-8151-IS) and bring to volume with Acetone. Final concentration is 25µg/mL. 10µL of this solution is added to the 1mL sample and QC sample extracts as well as to all Calibration Standards to achieve a concentration of 0.25µg/mL for analysis.

8.5 Calibration Standards: Appropriate vendor derivatized standard(s) are volumetrically diluted with Hexane to obtain Initial Calibration Stock Standard which is used to prepare Initial Calibration Working Standards.

8.5.1 Initial Calibration Stock Standard: to a 10mL volumetric flask, add few mLs of Hexane:

- **1mL 2,4-Dichlorophenyl acetic acid (DCAA) methyl ester solution: (**100µg/mL in MTBE, Accustandard, Cat # M515-SS) and
- **1mL of Chlorinated Herbicides Methyl Derivatives** (100/10000µg/mL in MTBE, Accustandard, Cat # M-8151) Bring to volume using Hexane. Final concentration is 10µg/mL for all analytes except MCPP and MCPA at 1000µg/mL.

8.5.1.1 Initial Calibration Working Standards

8.5.1.1.1 Cal Level 1: To a 10mL volumetric flask, add 50µL of Initial Calibration Stock Standard. Bring to volume with Hexane. Final concentration is 0.05µg/mL for all analytes except MCPP and MCPA at 5.0µg/mL.

8.5.1.1.2 Cal Level 2: To a 10mL volumetric flask, add 100µL of Initial Calibration Stock Standard. Bring to volume with Hexane. Final concentration is 0.10µg/mL for all analytes except MCPP and MCPA at 10.0µg/mL.

8.5.1.1.3 Cal Level 3: To a 10mL volumetric flask, add 200µL of Initial Calibration Stock Standard. Bring to volume with Hexane. Final concentration is 0.20µg/mL for all analytes except MCPP and MCPA at 20.0µg/mL.

8.5.1.1.4 Cal Level 4: To a 10mL volumetric flask, add 500µL of Initial Calibration Stock Standard. Bring to volume with Hexane. Final concentration is 0.50µg/mL for all analytes except MCPP and MCPA at 50.0µg/mL.

8.5.1.1.5 Cal Level 5: To a 10mL volumetric flask, add 1.0mL of Initial Calibration Stock Standard. Bring to volume with Hexane. Final concentration is 1.0µg/mL for all analytes except MCPP and MCPA at 100µg/mL.

8.5.1.1.6 Cal Level 6: To a 10mL volumetric flask, add 2.0mL of Initial Calibration Stock Standard. Bring to volume with Hexane. Final concentration is 2.0µg/mL for all analytes except MCPP and MCPA at 200µg/mL.

8.6 Second Source Standard: (ICV) Appropriate vendor derivatized standard(s) are volumetrically diluted with Hexane to obtain Initial Calibration Verification Stock Standard which is used to prepare ICV Working Standard.

8.6.1 ICV Stock Standard: to a 10mL volumetric flask, add a few mLs of Acetone (to ensure mix of Methanol from the Herbicides Mixture):

- **1mL of Methylated Herbicides Mixture** (100/10000µg/mL in Methanol, Agilent, Cat # HBM-8151M) and
- **1mL of DCAA Methyl Ester Solution: 2,4-Dichlorophenyl acetic acid (DCAA) methyl ester solution –SURROGATE (**100µg/mL in Acetone, Agilent, Cat # PPS-166). Bring to volume using Hexane. Final concentration is 10µg/mL for all analytes except MCPP and MCPA at 1000µg/mL.

8.6.1.1 ICV Working Standard: To a 50mL volumetric flask, add 1mL ICV Stock Solution. Bring to volume with Hexane. Final concentration is 0.2µg/mL for all analytes except MCPP and MCPA at 20µg/mL.

8.6.2 ICV Standard (2,4-DB only): to a 50mL volumetric flask, add few mLs of Hexane and **2,4-DB methyl ester** (1000µg/mL in Hexane, Restek, Cat # 70931). Bring to final volume using Hexane. Final concentration is 0.2µg/mL.

8.7 Extraction Surrogate Standard: 2,4-Diclorophenylacetic Acid (DCAA) (1000µg/mL in Acetone, AccuStandard, M-8150B-SS-10X) The Surrogate standard is spiked into all samples and QC samples prior to extraction.

- To a 1000mL volumetric flask, add 10mL of ampulated surrogate solution. Bring to volume with Acetone. Final concentration is 10µg/mL.

8.8 LCS/MS Spiking Solutions: The LCS/MS spiking solutions are prepared volumetrically by diluting Underivatized Chlorinated Herbicides (100/10000µg/mL in Acetone, AccuStandard, Cat # M8151A.) in Acetone

- To a 200mL volumetric flask, add 20mL of ampulated LCS/MS solution. Bring to volume with Acetone. Final concentration is 10µg/mL for all analytes except MCPP and MCPA at 1000µg/mL.

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 Blank(s)

A matrix-specific extraction blank is performed with each extraction batch of 20 or fewer samples, according to the extraction SOPs. The extraction blank must not contain any of the reportable analytes at or above the reporting limit. If any reportable analytes are detected in the blank, the entire extraction batch is suspect and re-extraction of all associated samples is required, unless the associated samples are non-detect or concentration of the analyte in the samples is 10 times greater than the concentration of this analyte in the blank. The surrogate recoveries must also be within the acceptance criteria listed in Table 3. If surrogate acceptance criteria are exceeded, the extraction batch must be evaluated to determine if re-extraction or re-analysis is necessary. Actions associated with blank failures are listed in Table 4.

9.2 Laboratory Control Sample (LCS) / LCS Duplicate

A Laboratory Control Sample (LCS) and an LCS Duplicate (LCSD) is extracted with each analytical batch. The LCS consists of an aliquot of a clean (control) matrix similar to the sample matrix and of the same weight or volume. The LCS is spiked with all target analytes. The concentrations of the spiking solutions are listed in Table 2. The recovery and RPD acceptance criteria are listed in Table 3. If any recovery criteria are not met, the extract should be reanalyzed. If the criteria are still not met, the entire batch should be re-extracted, unless the recoveries are high and the associated samples are non-detect. If this is not possible, due to insufficient sample or holding time exceedance, the analyst must write up the failure on a narrative sheet for inclusion in the client report. Actions associated with LCS/LCSD failures are listed in Table 4.

9.3 Initial Calibration Verification (ICV)

Refer to Section 10.2.7

9.4 Continuing Calibration Verification (CCV)

Refer to Section 10.4

9.5 Matrix Spike (MS)/MS Duplicate

A matrix spike/matrix spike duplicate pair is extracted and analyzed for each batch of 20 or less samples only upon client request. MS and MSDs are field samples spiked with a known quantity of the target analyte(s). They are prepared by taking additional sample aliquots of the same weight or volume and adding the appropriate amounts of surrogate and spiking solutions. The spike compounds and levels are listed in Table 2. The recovery and RPD acceptance criteria are listed in Table 3. If the recovery criteria are not met, but are met in the LCS, the

failure may be attributed to sample matrix. Actions associated with MS/MSD failure are listed in Table 4.

9.6 Laboratory Duplicate (DUP)

A duplicate sample is extracted and analyzed upon Client request for each batch of 20 or less samples. Duplicates are laboratory selected replicate samples, prepared by taking an additional sample aliquot of the same weight or volume of a sample. The % RPD criteria are listed in Table 3. If the %RPD is not met, the failure may be attributed to sample matrix effects and must be noted on a narrative sheet for inclusion in the client report. Actions associated with duplicate failures are listed in Table 4.

For samples with a state of origin of New Jersey, a MS and MSD/DUP must be extracted for every twenty samples within a 24hr period.

9.7 Extraction Surrogates

All extracted samples and associated QC are spiked with surrogates at the levels listed in Table 2. The laboratory must evaluate surrogate recovery data from individual samples and QC samples versus the surrogate control limits for both columns listed in Table 3. If the surrogate limits are not met, the extract should be reanalyzed to determine if the failure was due to an instrument problem. If the criteria are still not met, the affected samples should be re-extracted to confirm that the failure was due to sample matrix. If matrix effect is confirmed, this must be noted on a narrative sheet for inclusion in the client report.

9.8 Method Sequence

Typical Initial Calibration (each level has to be identified with the standard lot number)

1. Instrument Prime
2. Blank
3. Std Level 1
4. Std Level 2
5. Std Level 3
6. Std Level 4
7. Std Level 5
8. Std Level 6
9. Initial Calibration Verification Standard (ICV)
10. Initial Calibration Verification Standard (ICV)

Typical Daily Sequence:

1. Instrument Prime
2. Blank
3. Herbicide Continuing Calibration Standard **(identified with the standard lot number**)
4. Extraction Blank
5. Laboratory Control Sample
6. Laboratory Control Sample Duplicate
7. Matrix Spike (Upon Client Request)
8. Duplicate/Matrix Spike Duplicate (Upon Client Request)
9. Samples (10 field samples)
10. Repeat 3 – 9 (as needed)

10. Procedure

10.1 Equipment Set-up

The dual-column / dual-detector approach involves the use of the columns listed in section 7.2. The columns are connected to an Y-split or similar or dual injection GC, and separate electron capture detectors. Alpha typical GC conditions are listed below but may be altered as long as method performance criteria are met.

Temperature 1:	80 °C	**Detector temperature:**	350 °C
Ramp 1:	15°C/minute	**Carrier gas:**	Hydrogen
Temperature 2:	200°C	**Carrier flow:**	2.5 mL/min
Ramp 2:	20°C/minute	**Carrier mode:**	Constant flow
Temperature 3:	280°C	**Makeup gas:**	Nitrogen
Hold Time:	3 minutes	**Total detector flow:**	55 mL/min
Injector Temperature:	250°C		
Injector Mode:	Split		
Injector Flow:	36.5 mL/min		
Septum Purge Flow:	24 mL/min		
Split Flow:	10 mL/min		
Split Ratio:	4:1		
Injection Volume	1 µL		

10.2 Initial Calibration

10.2.1 Prepare calibration standards using the procedures in Section 8.5 and Table 2. The calibration standards are aliquoted into autosampler vials and capped prior to loading onto the autosampler tray. The calibration standards are analyzed and the curve is calculated prior to sample analysis.

10.2.2 Establish the GC operating conditions by loading the appropriate GC method. Typical instrument conditions are listed in section 10.1. The same operating conditions are used for calibrations and sample analyses. Create the analytical sequence using the Agilent Chemstation data acquisition software. Record the calibration standard, unique lot number (PP#) and analyst's initials in the analytical sequence list.

10.2.3 A 1µL injection volume of each calibration standard is typically used. Other injection volumes may be employed, provided that the analyst can demonstrate adequate sensitivity for the compounds of interest. The same injection volume must be used for all standards and samples.

10.2.4 Column adsorption may be a problem when the GC has not been used for a day or more or after system maintenance. The GC column may be primed (or deactivated) by injecting a Herbicides standard mixture approximately 20 times more concentrated than the mid-concentration standard. Inject this standard mixture prior to beginning the initial calibration or calibration verification.

Alternately, the system may be primed by baking at the final analytical temperature for approximately 30 minutes.

Several analytes may be observed in the injection just following system priming. Always run an instrument blank after system priming.

10.2.5 Calibration Factors

Internal standard calibration techniques are employed in this method.

10.2.5.1 Internal Standard Procedure. In each standard, calculate the response factor (RF) for each analyte, the average RF, and the relative standard deviation (RSD) of the RFs, using the Enviroquant data processing software. The calculations are performed automatically, using the formulae listed in Alpha's Quality Manual.

10.2.6 Initial Calibration Criteria

- If the **RSD for an analyte is < 20%,** then the response of the instrument for this compound is considered linear over the range and the mean calibration factor (Avg. RF) can be used to quantitate sample results.

- If the **RSD for any analyte is > 20%**, then linearity through the origin cannot be assumed. The mean response factor cannot be used for quantitation. An alternative calculation may be done by the use of **linear regression** or **quadratic regression** (minimum of six ICAL points are needed and regression must be weighted inversely proportional to concentration) as long as the **correlation coefficient is >0.990**. If both of these quantitation methods fail criteria for any compound in the initial calibration, then the system must be reevaluated and a new calibration curve must be analyzed. If quadratic regression is used for calibration, this must be noted in the laboratory narrative. The regression equation cannot be forced through the origin. The equation for linear regression may be found in Alpha's Quality Manual.

- **MCP requirement:** If linear or non-linear regression is used, RL must to be verified by recalculating concentrations in the lowest calibration standard using the final calibration curve. Recoveries must be **70-130%.**

- Minimum of five standards must be used for the linear regression and minimum of six for non-linear regression.

- Percent Relative Error (%RE): For linear and quadratic fit compounds, the %RE must be calculated for the standard at or near the midpoint and at the lowest level of the initial calibration. The %RE between the calculated and expected concentration of an analyte must be ≤ 30%, otherwise recalibration is necessary.

10.2.7 Initial Calibration Verification

An Initial Calibration Verification standards must be run immediately after each initial calibration, near the midpoint of the curve. The standards must be prepared using a second source that is different than the source used for the initial calibration. (Standards listed in Section 8.6). The **%D** has to be within **20%** (**15% for CT RCP**) when compared to the mean response factor from the initial calibration.

10.2.8 Retention Time Windows

- The retention time windows used for the identification of target analytes is ± 0.03 minutes. These criteria have been adopted from the EPA CLP Statement of Work (OLM04.2). It has been found that these limits work well, being wide enough to eliminate false-negatives while being tight enough to eliminate false-positives. Windows that are calculated using the procedure recommended in Method 8000 tend to be very narrow, creating the risk of false negative results.
- The windows listed above are used as guidance, however the experience of the analyst weighs heavily in the interpretation of the chromatograms. For example, it has been observed that certain oil matrices can cause the retention times to shift more dramatically. Additionally, if any positive results are questionable and at a sufficiently high concentration, GC/MS analysis is used for confirmation.

10.3 Sample Processing

10.3.1 The same GC operating conditions used for the initial calibration must be employed for sample analyses, including sample injection volume.

10.3.2 Tentative identification of an analyte occurs when a peak from a sample extract falls within the retention time window for the compound. Each tentative identification is confirmed using a second GC column of dissimilar stationary phase. In particularly difficult matrices, confirmation by GC/MS may be advisable.

10.3.3 The concentration reported for an identified target analyte in an extract is calculated using the Enviroquant data processing software. The Enviroquant methods have been configured to utilize the quantitation formulas found in Alpha's Quality Manual. Proper quantitation requires the appropriate selection of a baseline from which the peak area or height can be determined. See the Manual Integration SOP for integration guidelines. Also refer to Section 11 for calculations.

10.3.3.1 If the responses exceed the calibration range of the system, dilute the extract and reanalyze.

10.3.4 The laboratory must report **HIGHER** of the two results unless obvious interference is present on one of the columns.

10.3.4.1 The **Relative Percent Difference (RPD)** should be 40 or lower. If the RPD exceeds 40, this will be denoted with a P flag. If the RPD exceedance is due to interference, the lower of the dual column values can be reported with I and P flags.

10.3.5 If compound identification or quantitation is precluded due to interference (e.g. broad, rounded peaks or ill-defined baselines are present) cleanup of the extract may be needed. If instrument problems are suspected, rerun the extract on another instrument to determine if the problem results from analytical hardware or

the sample matrix. Refer to the extraction SOPs for the procedures to be followed in sample cleanup.

10.3.6 GC/MS Confirmation

GC/MS confirmation may be used in conjunction with either single-column or dual-column analysis if the concentration is sufficient for detection by GC/MS.

10.4 Continuing Calibration

10.4.1 Verify calibration each **12-hours** shift by injecting Continuing Calibration standard prior to conducting any sample analyses. A calibration standard must also be injected at intervals of **not less than once every 10 filed samples.**

A bracketing CCV is not required with the use of internal standard calibration method with the exception of samples ran under CT RCP method.

10.4.2 The Response Factor (for internal standard compounds) for each analyte to be quantitated must not exceed a **± 20% difference (± 15% for MCP and CT RCP**) when compared to the initial calibration curve. The Enviroquant data processing software automatically calculates the %D for all analytes according to the formula in Alpha's Quality Manual.

If this criterion is exceeded, inspect the gas chromatographic system to determine the cause and perform whatever maintenance is necessary before verifying calibration and proceeding with sample analysis.

10.4.3 If routine maintenance does not return the instrument performance to meet the QC requirements based on the last initial calibration, then a new initial calibration must be performed. Due to the large number of analytes present, allowances may be made for a CF or RF that drifts out high, as long as there are no positive hits for that particular analyte in any of the associated samples.

10.5 Internal Standard

The use of internal standard calibration does not require that all sample results be bracketed with CCV standard. However, when internal standard calibration is used, the retention times of internal standards and the area response of internal standards should be checked for each analysis.

10.5.1 **IS in CCAL** – The measured area of the internal standard must be no more than + 50% different from the average area calculated during initial calibration (-50 to 150%).

10.5.2 **IS in samples** - The measured area of the internal standard must be no more than -50% to +100% different from the area calculated from opening CCV (-50 to 200%)

Retention time shifts of more than 30 sec from the retention time of the most recent calibration standard are cause for concern and must be investigated.

10.6 Preventive Maintenance

- Routine preventive maintenance should be performed to maintain GC system performance. This includes periodic replacement of injector septa, replacement of injector liner(s), and replacement of injector seals. All maintenance is noted in individual Instrument Maintenance Logbooks.
- Other Maintenance: ECD detectors may become contaminated, requiring bake out at elevated temperatures, (no greater than 375℃) or repair by the manufacturer.

11. Data Evaluation, Calculations and Reporting

Herbicides are calculated as described in Section 11.1, 11.2, and reported in µg/L or µg/Kg units. After performing technical data review, validating that all QC criteria have been met and confirming all positive hits, the data report is sent electronically to the LIMS computer for generation of the client report. Two levels of review of the data in the LIMS system are preferred prior to release of data. These reviews include analyst review and review by the Department Supervisor or other trained analyst.

11.1 Aqueous Calculation

$$\mu g/L = \frac{(A_s)\,(C_{IS})\,(D)\,(V_f)}{(A_{IS})\,(\overline{RF})\,(V_s)\,(1000)}$$

Where:

A_s = Peak area of analyte
A_{IS} = Peak area of Internal Standard
C_{IS} = Concentration of IS (µg/L)
D = Dilution factor (D = 1 for no dilution)
V_f = Final extract volume (mL)
Vs = Initial volume extracted (mL)

$\overline{RF}$ = Mean response factor

11.2 Soil/Solid Calculation

$$\mu g/Kg = \frac{(A_s)\,(C_{IS})\,(D)\,(V_f)}{(A_{IS})\,(\overline{RF})\,(W_s)\,(1000)}$$

Where:

A_s = Peak area of analyte
A_{IS} = Peak area of Internal Standard
C_{IS} = Concentration of IS (µg/L)
D = Dilution factor (D = 1 for no dilution)
V_f = Final extract volume (mL)
Ws = Initial weight extracted (g)

$\overline{RF}$ = Mean response factor

11.2.1 Response Factor Calculation

$$RF = \frac{(A_s)\,(C_{IS})}{(A_{IS})\,(C_s)}$$

Where:

A_s = Peak area of analyte
A_{IS} = Peak area of Internal Standard
C_s = Concentration of analyte (µg/L)
C_{IS} = Concentration of IS (µg/L)

11.3 Molecular Weight Correction

In addition, conversion factors for the molecular weights have been listed for all analytes reported under EPA Method 8151.

The calibration is performed using the methyl ester compounds; therefore the calculation of the concentration includes a correction for the molecular weight of the methyl ester versus the acid herbicide.

Derivatized herbicides are used for the standard curve, and they are supplied as methyl esters as opposed to acid herbicide form which is used for the LCS. The difference between the acid form and the methyl ester is + 14 (i.e. In Derivatization, a -CH_3 group replaces the -H, (15-1 = 14)). The factors used for correction (listed in the Table below) vary for each herbicide and are applied to the standard concentration at each level of the calibration within the target processing software.

Example: 2,4-D

2,4-D MW = 221.04 2,4-D Methyl ester MW = 235.06

If you spike 10 ug of 2,4-D, and derivatized it, you end up with 10.634 ug of 2,4-D Methyl ester that you are measure, as you've stripped the -H and added a -CH3, increasing the molecular weight. The true value for the spike is 10 ug as the acid herbicide, and 10.634 ug as the methyl ester. So a spike of 10 ug of acid, would measure 10.634 ug of the methyl ester to get 100% recovery. The true value for the spike would be 10.634 as methyl ester, which you use to divide your measured value by.

If measuring recoveries, the value of the 10 ug of the methyl ester, would be 10 ug measured (as methyl ester)/10.634 ug spiked (as methyl ester) = 94.04%.

If, on the other hand you want to convert your final result using a correction factor, you would use the MW of the acid/MW of the ester (221.04/235.06 = 0.94).

Conversion Factors applied in EQ software:

Parameter	CAS No.[a]	MOL WT.	WT as methyl ester	Conversion Factor
2,4-D [1, 2, 3]	94-75-7	221.04	235.06	0.94
2,4-DB	94-82-6	326.18	340.18	0.96
2,4,5-TP (silvex) [1, 2, 3]	93-72-1	269.51	283.51	0.95
2,4,5-T [1, 2]	93-76-5	255.48	269.48	0.95
Dalapon	75-99-0	142.96	156.96	0.91
Dicamba	1918-00-9	221.04	235.04	0.94
Dichloroprop	120-36-5	235.06	249.06	0.94
Dinoseb	88-85-7	240.21	254.21	0.95
MCPA	94-74-6	200.62	214.62	0.93
MCPP	93-65-2	214.65	228.65	0.94

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

Refer to Section 10 for specific corrective actions.

13. Method Performance

13.1 Method Detection Limit Study (MDL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

The laboratory follows the procedure to determine the MDL, LOD, and/or LOQ as outlined in Qualtrax Document ID 1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

Refer to Alpha SOP/08-12 for further information regarding IDC/DOC Generation.

13.2.1 Initial (IDC)

The analyst must make an initial, one-time, demonstration of the ability to generate acceptable accuracy and precision with this method, prior to the processing of any samples.

13.2.2 Continuing (DOC)

The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

Refer to Alpha's Chemical Hygiene Plan and Waste Management and Disposal SOP for further pollution prevention and waste management information.

15. Referenced Documents

- Chemical Hygiene Plan
- Qualtrax ID 1732 MDL/LOQ Generation
- Qualtrax ID 1739 IDC/DOC Generation
- Qualtrax ID 1728 Waste Management and Disposal SOP

16. Attachments

Table 1: REPORTING LIMITS

Table 2: STANDARD SOLUTIONS

Table 3: QC ACCEPTANCE CRITERIA

Table 4: QC FAILURE ACTION PLAN

TABLE 1

REPORTING LIMITS

Herbicides	RL (Aqueous)	RL (Soil)
2,4-D	1.0 ug/L	33 ug/kg
Dalapon	1.0 ug/L	33 ug/kg
2,4-DB	1.0 ug/L	33 ug/kg
Dicamba	1.0 ug/L	33 ug/kg
Dichloroprop	1.0 ug/L	33 ug/kg
Dinoseb	1.0 ug/L	33 ug/kg
MCPA	100.0 ug/L	3300 ug/kg
MCPP	100.0 ug/L	3300 ug/kg
Silvex (2,4,5-TP)	1.0 ug/L	33 ug/kg
2,4,5-T	1.0 ug/L	33 ug/kg

TABLE 2

STANDARD SOLUTIONS

Compound	Level 6	Level 5	Level 4	Level 3	Level 2	Level 1	Std. Spike Concentration *	Std. LCS Concentration *
	(µg/mL)	(µg/mL)	(µg/mL)	(µg/mL)	(µg/mL)	(µg/mL)	(µg/mL)	(µg/mL)
2,4-D	2.0	1.0	0.5	0.2	0.1	0.05	10	10
Dalapon	2.0	1.0	0.5	0.2	0.1	0.05	10	10
2,4-DB	2.0	1.0	0.5	0.2	0.1	0.05	10	10
Dicamba	2.0	1.0	0.5	0.2	0.1	0.05	10	10
Dichloroprop	2.0	1.0	0.5	0.2	0.1	0.05	10	10
Dinoseb	2.0	1.0	0.5	0.2	0.1	0.05	10	10
MCPA	200	100	50	20	10	5	1000	1000
MCPP	200	100	50	20	10	5	1000	1000
Silvex (2,4,5-TP)	2.0	1.0	0.5	0.2	0.1	0.05	10	10
2,4,5-T	2.0	1.0	0.5	0.2	0.1	0.05	10	10
DCAA (Surrogate)	2.0	1.0	0.5	0.2	0.1	0.05	10	10

***** Calculations are based on an initial aqueous sample volume of 1L**,** initial soil sample weight of 30g, and final extract volume of 10mL.

TABLE 3

QC ACCEPTANCE CRITERIA

	Aqueous/Soil	
Surrogate % Recovery	**Lower Control Limit**	**Upper Control Limit**
2,4-Diclorophenylacetic acid (DCAA)	30%	150%

	% Recovery		% RPD		MCP %RPD	
LCS/LCSD	**Lower Control Limit**	**Upper Control Limit**	**waters**	**soils**	**waters**	**soils**
2,4-D	40%	140%	≤ 50%	≤ 50%	≤ 20%	≤ 30%
dalapon						
2,4-DB						
dicamba						
dichloroprop						
dinoseb						
MCPA						
MCPP						
Silvex (2,4,5-TP)						
2,4,5-T						

	% Recovery		% RPD		MCP % RPD	
MS / MSD	**Lower Control Limit**	**Upper Control Limit**	**waters**	**soils**	**waters**	**soils**
2,4-D	30%	150%	≤ 30%	≤ 30%	≤ 20%	≤ 30%
dalapon						
2,4-DB						
dicamba						
dichloroprop						
dinoseb						
MCPA						
MCPP						
Silvex (2,4,5-TP)						
2,4,5-T						

TABLE 4

QC FAILURE ACTION PLAN

Blank Failures	Failure Situation	Action(s)
Surrogate Failure	1 of 2 high or low	Report as is
	Both high	Report as is
	Both low, samples are non-detect with passing surrogates	Report as is
	Both low, samples have hits and/or failing surrogates	Revial/rerun Re-extract if still failing
IS Failure	IS not present (less than 10% recovery)	Add IS Rerun
	IS out high or low	Revial/rerun Re-extract if still failing
Contamination	Below RL; sample(s) non-detect, below RL, or concentration 10 times or more above the blank	Report as is
	Below RL, sample(s) concentration above RL	See team leader/manager
	Above RL, sample(s) concentration 10 times or more above the blank	Report as is
	Above RL with non-detect sample(s)	Report as is
	Above RL, sample(s) concentration less than 10 times above the blank and volume available	Revial/rerun Re-extract if contamination still present
	Above RL, sample(s) concentration less than 10 times above the blank and no volume available	Revial/rerun B-flag affected data

LCS/LCSD Failures	Failure Situation	Action(s)
Surrogate Failure	1 of 2 high or low	Report as is
	Both high or low	Report as is
IS Failure	IS not present (less than 10% recovery)	Add IS Rerun
	IS out high or low	Revial/rerun Re-extract if still failing
Spike Failure	Spike compounds out high and sample(s) are non-detect with passing surrogates	Report as is
	Spike compounds out high and sample(s) have hits	Revial/rerun Re-extract if still high
	Spike compounds out low	Revial/rerun Re-extract if still low
	RPD failure	Report as is

MS/MSD/DUP Failures	Failure Situation	Action(s)
Surrogate Failure	(MS/MSD) 1 of 2 high or low	Report as is
	(MS/MSD) Both high or low	Report as is
	(DUP) 1 or more high, parent sample non-detect	Report as is
	(DUP) 1 of 2 low, parent sample matches	Report as is
	(DUP) 1 or more low, parent sample doesn't match	Revial/rerun Re-extract if still failing
IS Failure	IS not present (less than 10% recovery)	Add IS Rerun
	IS out high or low	Revial/rerun Re-extract if still failing
Spike Failure (MS/MSD only)	Compounds out high or low due to sample matrix or hits	Report as is
	Compounds out high or low due to extraction error	Revial/rerun Re-extract if still failing
	RDP failure	Report as is

Chromium, Hexavalent

References: **SM3500 Cr-B**, Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

7196A, SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Update I, 1992.

3060A, SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Update III, 1996.

1. Scope and Application

Matrices: This method is applicable for the determination of hexavalent chromium in natural or treated water or in a soil or solid matrix.

Definitions: See Alpha Analytical Quality Manual Appendix A

The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one of the following laboratory personnel before performing the modification: Area Supervisor, Laboratory Services Manager, Laboratory Director, or Quality Assurance Officer.

This method is restricted to use by or under the supervision of analysts experienced in the operation of the Spectrophotometer and in the interpretation of Spectrophotometric data. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

The hexavalent chromium concentration of U.S. drinking waters has been reported to vary between 3 and 40µg/L with a mean of 3.2µg/L. Chromium salts are used extensively in industrial processes and may enter a water supply through the discharge of wastes. Chromate compounds frequently are added to cooling water for corrosion control. Chromium may exist in water supplies in both the hexavalent and the trivalent state although the trivalent form rarely occurs in potable water.

2. Summary of Method

This procedure measures only hexavalent chromium (Cr^{6+}). The hexavalent chromium is determined colorimetrically by reaction with diphenylcarbazide in acid solution. A very sensitive red-violet color of unknown composition is produced, and its absorbance is measured photometrically at 540nm.

2.1 Method Modifications from Reference

The coloring reagent used for the standards in the calibration curve and for the samples is made by dissolving 1 gram of 1,5-diphenylcarbazine in 250mL of acetone, whereas the reference method 7196A dissolves 1 gram in 200mL of acetone.

Alpha uses a smaller sample volume for analysis; therefore reagent volumes are reduced accordingly.

Alpha doesn't perform Blank correction;

2.5 cm (not 1cm) absorption cell is used for water samples to increase sensitivity.

Soil samples with failed soluble or insoluble spikes will be analyzed for PH and ORP to check if sample has reducing condition. If reducing condition confirm then lab will not Reprep asnd reanalyze samples with failed insoluble and soluble spikes

3. Reporting Limits

The RDL reported is 0.01mg/L for 50mL of an aqueous sample. The RDL reported is 0.8mg/Kg for 2.5g of a soil/solid sample. The RDLs are not adjusted for % Moisture.

4. Interferences

4.1 Background Color

Turbidity and background sample color are removed by filtering the sample through a 0.45µm filter. In cases when filtration alone is not sufficient, background interference can be subtracted out by adding all reagents to the sample except diphenylcarbazide solution, measuring the background absorbance, and then subtracting this value from the colored sample absorbance value.

4.2 Other Metals

The reaction with diphenylcarbazide is nearly specific for chromium. Hexavalent molybdenum and mercury salts will react to form color with the reagent but the intensities are much lower than that for chromium at the specified pH. Concentrations as high as 200 mg/L of Mo or Hg can be tolerated. Vanadium interferes strongly but concentrations up to 10 times that of chromium will not cause trouble. Potential interference from permanganate is eliminated by prior reduction with azide. Iron in concentrations greater than 1mg/L may produce a yellow color but the ferric ion (Fe^{3+}) color is not strong and no difficulty is encountered normally if the absorbance is measured photometrically at the appropriate wavelength. Interfering amounts of molybdenum, vanadium, iron, and copper can be removed by extraction of the cupferrates of these metals into chloroform ($CHCl_3$). A procedure for this extraction is provided in the reference but do not use it unless necessary because residual cupferron and $CHCl_3$ in the aqueous solution complicate the later oxidation. Therefore, follow the extraction by additional treatment with acid fuming to decompose these compounds.

4.3 Reducing/oxidizing tendency of sample matrix

When analyzing a sample digest for total Cr(VI), it is appropriate to determine the reducing/oxidizing tendency of each sample matrix, if the matrix spike for that sample matrix has failed the quality control acceptance criteria for this method. Determination of the Reducing/oxidizing potential for failing matrix spike samples can be accomplished by characterization of each sample for additional parameters, such as pH (Method 9045) and Oxidation Reduction Potential (ORP) (ASTM 1498-93 –aqueous samples). Method 9045 (Section 7.2 of Method 9045) is referenced as the preparatory method for soil samples. The ORP and temperature probes are inserted directly into the soil slurry derived from the pH analysis. The displayed ORP value is allowed to equilibrate and the resulting measurement is recorded. Analysis of these parameters establishes the tendency of Cr(VI) to exist or not exist in the unspiked sample(s) and assists in the interpretation of QC data for matrix spike recoveries outside conventionally accepted criteria for total metals.

4.4 Soluble Cr(III) concentration

For waste materials or soils containing soluble Cr(III) concentrations greater than four times the laboratory Cr(VI) reporting limit, Cr(VI) results obtained using this method may be biased high due to method-induced oxidation. The addition of Mg^{2+} in a phosphate buffer to the alkaline extraction solution has been shown to suppress this oxidation. If an analytical method for Cr(VI) is used that can correct for possible method induced oxidation/reduction, then the Mg^{2+} addition is optional. The presence of soluble Cr(III) can be approximated by extracting the sample with deionized water.

5. Health and Safety

The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound must be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available.Hexachrome is toxic and suspected carcinogen. A reference file of material data handling sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection

Samples are collected in plastic or glass containers with teflon-lined caps. Sample containers must not contain any stainless steel. Separate container has to be provided for MCP HexCr (see MCP addendum)

6.2 Sample Preservation

Samples are unpreserved and refrigerated at 4 ± 2 °C.

6.3 Sample Shipping

No special shipping requirements.

6.4 Sample Handling

Aqueous samples must be analyzed within 24 hours of collection.

Soil and solid samples must be digested within 30 days of collection. The extracts must be analyzed within 168 hours (7 days) after extraction.

7. Equipment and Supplies

7.1 Spectrophotometer: Genesys 10 Vis or equivalent: for use at 540nm, with a light path of 1cm or longer.

7.2 100 ml digestion cups

7.3 pH Meter: Calibrated.

7.4 Volumetric flasks: 1000mL and 100mL.

7.5 Filtration apparatus.

7.6 0.45µm Membrane filters.

7.7 Hot block Model # SC151 with Stir Base Stirring device (part #SC160)

7.8 Balance.

7.9 Thermometers.

7.10 Volumetric pipets: various volumes.

7.11 50mL Centrifuge Tubes.

7.12 100mL Graduated cylinder

7.13 pH paper range 1-14.

7.14 Centrifuge

8. Reagents and Standards

8.1 1000ppm Stock Hexavalent Chromium Solution (for calibration and LCS): Commercial purchase. Expire upon manufacturer's expiration date. Use different lots for calibration and LCS.

8.2 1ppm Working Standard Hexavalent Chromium Solution (for calibration): Dilute 1.00mL stock chromium solution (Section 8.1) to 1000mL with DI. Store at room temperature. Expires three months from the date of preparation.

8.3 10ppm Working Standard Hexavalent Chromium Solution (for LCS/ICV): Dilute 1.00mL stock chromium solution (Section 8.1) to 100mL with DI. Store at room temperature. Expires six months from the date of preparation

8.4 Nitric acid, HNO_3, concentrated. Do not use if has a yellow tinge. Expires upon manufacturer's expiration date.

8.5 Nitric Acid, 50%: Into a 500mL volumetric flask, dilute 250mL of Concentrated Nitric Acid with 250mL of DI water. Expires six months from the date of preparation.

8.6 Sulfuric acid, H_2SO_4, concentrated.

8.7 Sulfuric acid, H_2SO_4, 10%: Dilute 50mL concentrated H2SO4 to 500mL with DI water. Expires six months from the date of preparation.

8.8 Diphenylcarbazide solution: Dissolve 1.0g 1,5-diphenylcarbazide (1,5-diphenylcarbohydrazide) in 250mL acetone. Store in a plastic bottle cover with aluminum foil or away from light. Discard when solution becomes discolored. Prepare fresh weekly.

8.9 Sodium carbonate: Na_2CO_3, anhydrous, analytical reagent grade. Store at 20 – 25°C in a tightly sealed container.

8.10 Sodium hydroxide: NaOH, analytical reagent grade. Store at 20 – 25°C in a tightly sealed container.

8.11 Magnesium Chloride: $MgCl_2$ (anhydrous), analytical reagent grade. 392.18mg $MgCl_2$ is equivalent to 100mg Mg^{2+}. Store at 20 – 25°C in a tightly sealed container. As an alternate, use 0.8366g $MgCl_2 \cdot 6\ H_2O$.

8.11.1 Magnesium Chloride solution: Dissolve 84g of $MgCl_2 \cdot 6\ H_2O$ in 100mL of DI. Store at 20 – 25°C in a tightly sealed container. Expires six months from the date of preparation.

8.12 Phosphate Buffer:

8.12.1 K_2HPO_4: Analytical reagent grade.

8.12.2 KH_2PO_4: Analytical reagent grade.

8.12.3 0.5M K_2HPO_4 / 0.5M KH_2PO_4 buffer: Dissolve 87.09g K_2HPO_4 and 68.04g KH_2PO_4 into 700mL of DI water. Transfer to a 1L volumetric flask and dilute to volume. (When prepared accordingly, the buffer solution has an approximate pH value of 7.)Record pH

in the reagent log book. Store at 20 – 25°C in a tightly sealed container. Expire one year from prep.

8.13 Lead Chromate: $PbCrO_4$, analytical reagent grade. Store under dry conditions at 20 – 25°C in a tightly sealed container. Expires upon manufacturer's expiration date.

8.13.1 Soil matrix insoluble spiking solution: Add 10 – 20mg $PbCrO_4$ (Section 8.12) to a separate aliquot of sample. This spike is used to evaluate the dissolution during the digestion process.

8.14 Digestion solution: Dissolve 20.0 ± 0.05g NaOH and 30.0 ± 0.05g Na_2CO_3 in deionized water in a one-liter volumetric flask and dilute to the mark. Store the solution in a tightly capped polyethylene bottle at 20 – 25 °C and prepare fresh monthly. The pH of the digestion solution must be checked before using. The pH must be 11.5 or greater; if not, discard.

8.15 Potassium Dichromate, $K_2Cr_2O_7$, spiking solution (1000mg/L Cr (VI)): Commercial purchase. Expire upon manufacturer's expiration date.

8.15.1 100mg/L Cr (VI): Add 10.0mL of the 1000mg/L $K_2Cr_2O_7$ spiking solution (Section 8.15) to a 100mL volumetric flask and dilute to volume with deionized water. Mix well.

8.15.2 5ppm: To a 100mL volumetric flask, add 5mL of 100ppm spiking solution (Section 8.15.1), bring to volume with DI.

8.15.3 Soil sample soluble spike: Add 1 ml of 1000mg/L Cr (VI) spiking solution (Section 8.15) to 2.5g of sample.

8.15.4 Post spike soil sample: Add 1 ml of 100mg/L Cr(VI) solution (section 8.15.1) to 25 ml extracted sample.

8.15.5 Aqueous sample spike: Add 1ml of 5 ppm (section 8.15.2) to 50 ml of sample**.**

8.16 ICV and CCV Standards: Commercially prepared solution of known hexavalent chromium concentration. A Certificate of Analysis is kept on file. This solution is diluted with DI to a concentration 0.2 ppm on each day of use

8.17 Acetone: Analytical reagent grade.

8.18 Ottawa Sand

8.19 SRM HexCr standard: ERA QC-Cat#921. Expires upon manufacturer's expiration date

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 Blank(s)

One preparation blank is digested and analyzed per batch of 20 samples or less for method 3500. Method 7196: batch size is 10 samples or less. The concentration of the Blank must be less than the RDL, or one-tenth the regulatory limit or action level, whichever is greater, otherwise the entire batch must be redigested and reanalyzed.
Method Blanks consist of DI water for liquid samples or 2.5g of Ottawa sand for soil samples.

The ICB consists of DI water that has been colored and analyzed as per Section 10.3.4. Results must be less than the RDL, otherwise another ICB is colored and analyzed. It failure continues, a new calibration curve is generated (Section 10.1).

9.2 Laboratory Control Sample (LCS)

One LCS is prepared and analyzed per batch of 20 samples or less for method 3500. Method 7196: batch size is 10 samples or less.

The LCS for aqueous samples consists of the ICV (Section 10.2). LCS recovery for liquids must be within 85 – 115%, otherwise the entire sample batch must be reanalyzed.

For solids samples, a soluble LCS and insoluble LCS must be digested per batch of 20 samples or less (Refer to Section 10.3.3.1) LCS recovery for solids must be within 80 – 120%, otherwise the sample batch must be redigested and reanalyzed.

Note: SRM HexCr standard made by ERA is used for soil LCS: use 0.2-0.5 g, based on certified value. Expires upon manufacturer's expiration date.

9.3 Initial Calibration Verification (ICV)

Refer to Section 10.2

9.4 Continuing Calibration Verification (CCV)

Refer to Section 10.4

9.5 Matrix Spike

9.5.1 Aqueous samples

One sample per delivery group per batch of 20 samples (method 3500) or 10 samples (method 7196) or less is required to be spiked.

Example: If a batch consists of 6 liquid samples (3 wastewater from Client A and 3 wastewater from Client B), then one wastewater from Client A and one wastewater from Client B each require spiking.

The spike is prepared by adding 1mL of 5ppm aqueous spiking solution (Section 8.15.2) to 50mL of sample. Spike recovery must be within 85 – 115. If spike recovery is outside of the range, adjust sample pH to 8.5 then add 1 ml of 5 ppm spiking solution and reanalyze. If spike recovery still outside of the range, then dilute sample and retest both diluted sample and spiked diluted sample. Report sample results at the dilution for which the spike recovered at 85 – 115%.

Sample dilutions can be made with DI, up to 200X or up to the client's specified detection limits.

If interferences remain after dilutions, and spike recovery is still less than 85% for aqueous samples, refer to Section 10.3.5.

9.5.2 Soil / solid matrix samples

Two spikes per batch of 10 samples or less are required; one with a soluble spike and one with an insoluble spike (Section 10.3.3.1). The acceptance range for spike recovery is 75 – 125%. If recoveries are not within the specified limits, then samples will be analyzed for PH and ORP to confirm matrix interference. If samples have reducing condition then a re-digestion of the sample and matrix spikes will not be needed..

For NJ-HexCr packages: If recoveries are not within the specified limits, then the matrix spike(s) and the associated samples must be re-homogenized/re-digested/re-analyzed. If upon reanalysis, it is found that the recoveries are acceptable, then the data is submitted with the new spike results. If it is found that the recoveries are still unacceptable upon redigestion, then it is assumed that the sample matrix is suspect and the pH (SOP 2203) and ORP (SOP 2237) are measured at once for the sample that was spiked. (for NJ HexCr method). For MCP method, pH and ORP are measured within 24h of sample collection.

If prior knowledge of an interfering sample matrix is known, then matrix spike duplicates (MSD) are set for the soluble and insoluble matrix spikes, along with the pH and ORP analyses for the samples to be spiked. Failure of the MS/MSD will verify that the sample matrix interferes with the digestion and will not necessitate a re-digestion of the sample and matrix spikes.

SOP addendum must be checked for NJ HexCr and MCP HexCr methods for additional actions.

9.6 Laboratory Duplicate

Analyze one sample in duplicate per batch of 20 samples (method 3500) or 10 samples (method 7196) or less. The %RPD must be $\leq$ 20% for aqueous samples and $\leq$ 20% for solid samples, if both the original sample and the duplicate results are greater than or equal to four times the reporting limit. A control limit of ± the laboratory reporting limit is used when either the original sample result or the duplicate sample result is less than four times the laboratory reporting limit.

9.7 Method-specific Quality Control Samples

Not applicable.

9.8 Method Sequence

- Sample preparation (digestion and/or pH adjustment and filtration)
- Coloring procedure
- Analysis on Spectrophotometer
- Verification
- Calculation

10. Procedure

10.1 Equipment Set-up

10.1.1 A calibration curve is generated at a minimum of once per year, as follows:

10.1.1.1 **For Liquid**: Pipet the following volumes of the 1ppm working standard (Section 8.2) into separate 50mL volumetric flasks: 0.25 ml, 0.5 ml, 1 ml, 2.5 ml, 5 ml, 10 ml and 25 ml. Bring each to volume with DI to give the following concentrations respectively: 0.005ppm, 0.01ppm, 0.02 ppm, 0.05 ppm, 0.10ppm, 0.20ppm and 0.50ppm. Include a 50mL DI blank and proceed with subsequent treatment of the standards in the same manner as samples (Section 10.3.2).

10.1.1.2 **For Soil**: Prepare five 100 ml digestion cups, add 1 ml of Magnesium Chloride solution (8.11.1) into each cup, then pipet following volumes of the 10 ppm working standard (section 8.3) into separate digestion cups:0 ml, 0.1mL, 1.0mL, 5.0 ml and 10mL. To all digestion cups add 50 ml of digestion solution and 0.5 ml of phosphate buffer. Proceed to soil/solid digestion and extraction procedure(sections 10.3.3.2 to 10.3.3.7)

10.1.1.3 Develop color for standards and blank as in Section 10.3.4.

10.1.1.4 Construct a calibration curve by plotting the absorbance values against mg/L hexavalent chromium. An acceptable curve must have a calibration coefficient of $\geq$ 0.995. This calibration curve is valid for one year, unless failure of an ICV requires construction of a new calibration curve. For method 3500: analyze RL verification standard (at 0.01 mg/l) following calibration. % recovery must be within +/-30% from true value.

Note: see MCP-HexCr and NJ-HexCr addendum for frequency of calibrations for MCP and NJ sites.

10.2 Initial Calibration

A non-digested, colored ICV (Section 8.16) (from a different source than was used for the calibration standards) must be recovered between 85 – 115%. If these criteria are not met, then the ICV is re-analyzed. If failure repeats, then the ICV is re-made and re-analyzed. If failure continues, prepare a new calibration curve (Section 10.1). See Section 12 for corrective actions.

10.3 Equipment Operation and Sample Processing

10.3.1 Treatment of sample: If interfering amounts of molybdenum, vanadium, copper, or iron are present, then follow the removal procedures as stated in the reference method.

10.3.2 Aqueous Samples:

Samples containing sediment, floating or suspended matter, or turbidity are filtered through a 0.45µm membrane filter prior to pH adjustment. If background interferences persist, measure an absorbance reading before adding diphenylcarbazide reagent (Section 10.3.4) and correct the absorbance of the final colored solution by subtracting the absorbance measured previously.

Proceed to Section 10.3.4.

10.3.3 Solid / soil sample digestion and extraction procedure:

10.3.3.1 **Samples:** Thoroughly mix the sample and weigh 2.5g +/- 0.1g into a 100 ml digestion cup. Add 1 ml of $MgCl_2$ solution.

10.3.3.2 **Blank:** Weigh 2.5g Ottawa Sand into a 100ml digestion cup, add 1 ml of $MgCl_2$ solution.

10.3.3.3 **Insoluble LCS:** Add 0.2-0.5 g of SRM (ERA catalog # 921) and 1 ml of $MgCl_2$ solution.

10.3.3.4 **Soluble LCS:** Weigh 2.5g Ottawa Sand into a 100ml digestion cup, add 1 ml of $MgCl_2$ solution and 1.0mL 1000ppm $K_2Cr_2O_7$. (Section 8.15).

10.3.3.5 **Matrix Spike, insoluble:** Thoroughly mix the sample and weigh 2.5g into a 100 ml digestion cup. Add 1 ml of $MgCl_2$ solution and 0.01 – 0.02g $PbCrO_4$ (Section 8.13.1).

Matrix Spike, soluble: Thoroughly mix the sample and weigh 2.5g into a 100mL digestion cup. Add 1 ml of $MgCl_2$ solution and 1.0mL 1000ppm $K_2Cr_2O_7$. (Section 8.15).

To all samples and QC samples, add 50mL of digestion solution (8.14) and 0.5mL of phosphate buffer (Section 8.12.3).

10.3.3.6 Stir the sample on a stir plate (unheated) for at least 5 minutes.

10.3.3.7 Place samples on hot block with Stirring base; heat samples for 1 hour at 90 – 95 °C (after temperature reached 90°C)

10.3.3.8 While still stirring, allow to cool to room temperature. Transfer the contents of the digestion vessel to 50 ml centrifuge tube then centrifuge for 6 minutes .Pour centrifuged solution back to original cup. Save the solid centrifuged material from the matrix spikes for possible later analysis for assessing low Cr (VI) recoveries. Store the centrifuged solid at 4 ±2°C.

10.3.3.9 While constantly stirring, very slowly add 50% HNO_3 (Section 8.4) to the centrifuged liquid to carefully adjust the pH to 7.5 ± 0.5. If the pH drops below 7.0, discard the solution and re-digest.

10.3.3.10 Remove the stir-bar and rinse keeping rinsate in the cup, and transfer quantitatively to a 100mL volumetric flask, 100 ml graduated cylinder, or 100mL digestion cup. Bring to volume with DI.

10.3.3.11 Proceed with coloring and analysis as described in Section 10.3.4.

10.3.4 Color development and measurement:

Place 45mL of sample or standard solution into a 50mL centrifuge tube. Adjust to pH 2 ± 0.5 with 10% H_2SO_4 (Section 8.7). Record pH on excel format. Add 1mL Diphenylcarbazide solution (Section 8.8) and adjust to 50mL with DI water. Mix and let stand 5 – 10 minutes for full color development.

Set the spectrophotometer to zero at 540 nm, utilizing the colored reagent blank in a 1cm absorption cell for soil samples and 2.5 cm absorption call for waters. Next, transfer a suitable portion of each colored standard solution or sample to a 1cm absorption cell for soils and 2.5 cm absorption cell for waters. Measure and record each absorbance at 540nm. Determine mg/L chromium present by reference to the calibration curve (Section 10.1.1.3).

10.3.4.1 Dilute samples volumetrically with DI water if they are more concentrated than the highest standard in the calibration curve.

10.3.4.2 When necessary samples precipitate poured off for analysis.

10.3.5 Verification of Samples

10.3.5.1 For aqueous and soil samples, verification is required to ensure that neither a reducing condition nor a chemical interference is affecting color development. This is accomplished by analyzing a second 10mL aliquot of the pH adjusted filtrate of the soluble spike. 1mL of 100ppm $K_2Cr_2O_7$ solution (Section 8.15.1) is added to the filtrate and analyzed. To verify the absence of an interference, the spike recovery must be between 85% and 115%.

If the spike recovery is less than 85%, the presence of an interference or reducing condition is verified. Client Services must be notified and a narrative included on the final report that indicates "verification of this sample indicates the presence of a reducing condition or a chemical interference that could affect the results".

10.3.5.2 If addition of the spike extends the concentration beyond the calibration curve, the analysis solution must be diluted with a blank solution and the calculated results adjusted accordingly.

10.3.5.3 If the result of verification indicates a suppressive interference, the sample must be diluted and reanalyzed.

10.3.5.4 If the interference persists after sample dilution then an alternative method must be considered. See the Inorganics Supervisor for further instruction.

Aqueous samples with acidic extracts that yield recoveries of less than 85% are re-tested to determine if the low spike recovery is due to the presence of residual reducing agent. This determination is performed by first making an aliquot of the extract alkaline (pH 8.0-8.5) using 1N NaOH. The pH is recorded in the laboratory notebook. This aliquot is respiked and analyzed. If a spike recovery of 85-115% is obtained on the alkaline aliquot of an acidic extract that initially was found to contain less than 5 mg/L Cr(VI), one can conclude that the analytical method has been verified.

10.3.5.5 If the spike recovery is still below 85%, then the presence of reducing agent is confirmed. Client Services must be notified and a narrative included on the final report that indicates "verification of this sample indicates the presence of a reducing condition or a chemical interference that could affect the results".

10.4 Continuing Calibration

The calibration curve must be verified after every 10 samples or less, with a recovery of 85 – 115% of a non-digested, colored ICV/CCV standard (Section 8.16). If these criteria are not met, then the CCV is re-analyzed. If failure repeats, then the CCV is re-made and re-analyzed. If failure continues, prepare a new calibration curve (Section 10.1). See Section 12 for corrective actions.

10.5 Preventive Maintenance

The Spectrophotometer is calibrated on a semi-annual basis by an instrument service company. Records are kept on file.

11. Data Evaluation, Calculations and Reporting

For aqueous samples:

$$\text{mg } Cr^{+6}/L = \left[\frac{\text{absorbance} - \text{y-intercept}}{\text{slope}}\right] \times \text{dilution}$$

For solid samples:

$$\text{mg } Cr^{+6}/Kg = \left[\frac{\text{absorbance} - \text{y-intercept}}{\text{slope}}\right] \times \left[\frac{\text{dilution x 0.1L (final volume)}}{\text{weight (Kg) of sample}}\right]$$

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

Holding time exceedence, improper preservation and observed sample headspace are noted on the nonconformance report form.

Perform routine preventative maintenance following manufacturer's specification. Record all maintenance in the instrument logbook.

Review of standards, blanks and standard response for acceptable performance occurs for each batch of samples. Record any trends or unusual performance on a nonconformance action form.

If the ICV or LCS recovery falls outside the designated acceptance range, the laboratory performance is judged to be out of control, and the problem must be immediately identified and corrected. The analytical result in the unspiked samples is suspect and is only reported for regulatory compliance purposes with the appropriate nonconformance action form. Immediate corrective action includes reanalyzing all affected samples by using any retained sample before the expiration of the holding time.

Failure of the LCS for method 3060A requires that the entire sample batch be re-digested and re-analyzed.

If the method blank for method 3060A is greater than the reporting limit, then the following action must be taken. Samples that are non-detect may be reported, and the method blank result is narrated on the final report. If the sample concentration is greater than 10X the concentration of the method blank, then the sample may be reported, and the method blank is narrated on the final report. If the sample(s) concentration are above the reporting limit, but are not greater than 10X the concentration of the method blank, then those samples must be re-digested and re-analyzed. In this case, it is not necessary to submit a narrative unless there is a problem with the hold time, or there is not enough sample to re-digest. The Client Services Department must be made aware of the situation, and if the data is released then the method blank non-conformance is narrated.

The ICV for the analysis must have a recovery of 85-115%. If the ICV fails, it must be re-made and re-analyzed. If the failure persists, then a new calibration curve is constructed.

The ICB for the analysis must be below the detection limit for the analysis. If the ICB fails this requirement, then fresh blank must be colored and analyzed, if this does not solve the problem then a new calibration curve must be constructed.

If the CCV or the CCB fail, pour out a fresh aliquot of CCV and CCB and re-color and re-analyze. If the CCV or the CCB does not pass, then construct a new calibration curve and re-analyze the samples that followed the last acceptable CCV/CCB.

A duplicate result that is outside of the controls limits for this method must be narrated. The sample must be examined to determine the cause of the poor duplication. If it is determined that the poor duplication was due to analyst technique, then the sample and its duplicate are re-digested and re-analyzed. Otherwise, narrate the non-conformance on the final report.

If the matrix spike (aqueous samples) falls outside of the acceptable range of the method, then the analyst must go to the verification (section 10.3.5) part of this method. Poor spike recoveries must be narrated on the final report. Upon Client authorization, hexachromes with poor spike recoveries can be analyzed for total chromium by ICP-AES (Method 6010). The sample must be processed according to the Total Chromium procedure employed and the digestion procedure necessary. Clients will be invoiced for the Total Chromium analysis. Solids and soils digested under 3060A that have failing matrix spike recoveries must be re-digested and re-analyzed to determine if the failure is do to poor technique or the sample matrix. If upon reanalysis, it is found that the recoveries are acceptable, then the data is submitted with the new spike results. If it is found that the recoveries are still unacceptable upon redigestion, then it is assumed that the sample matrix is suspect The pH and ORP results are evaluated against the Eh/pH Phase Diagram (Figure 1) for MCP or NJ HexCr, and the result (reducing or oxidizing) is included in a sample narrative explaining the poor spike recovery.

13. Method Performance

13.1 Method Detection Limit Study (MDL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

The laboratory follows the procedure to determine the MDL, LOD, and/or LOQ as outlined in Alpha SOP/1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

Refer to Alpha SOP/1734,1739 for further information regarding IDC/DOC Generation.

13.2.1 Initial (IDC)

The analyst must make an initial, one-time, demonstration of the ability to generate acceptable accuracy and precision with this method, prior to the processing of any samples.

13.2.2 Continuing (DOC)

The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

Refer to Alpha's Chemical Hygiene Plan and Waste Management and Disposal SOP for further pollution prevention and waste management information.

15. Referenced Documents

Chemical Hygiene Plan

SOP/1732 MDL/LOD/LOQ Generation

SOP/1734, 1739 IDC/DOC Generation

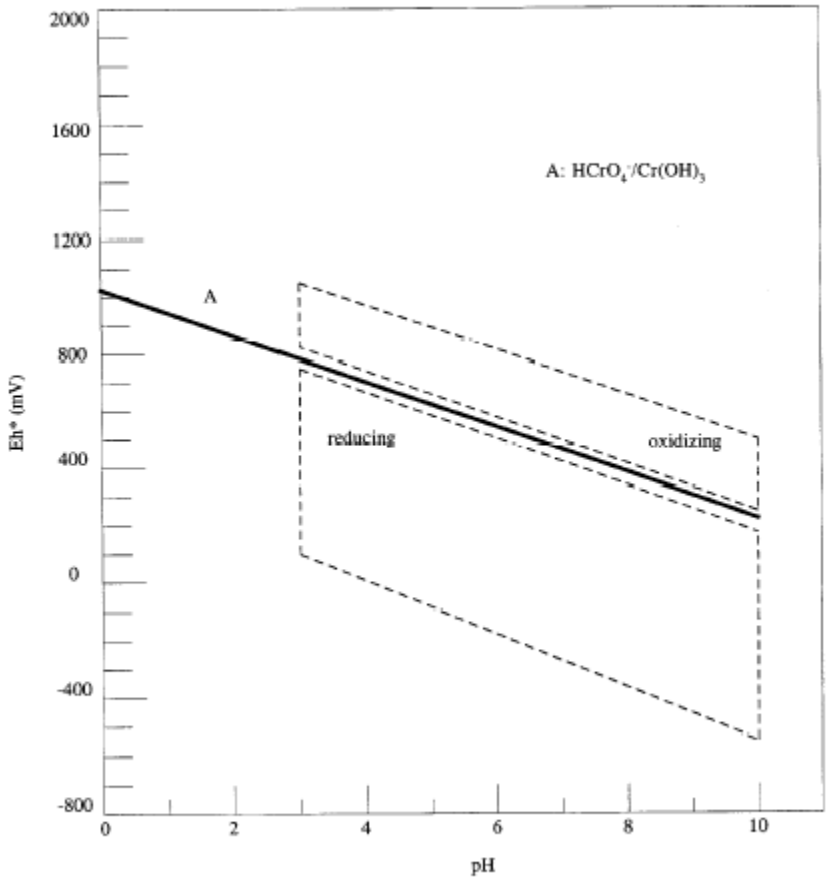
SOP/1728 Waste Management and Disposal SOP

16. Attachments

Figure 1: Eh/pH Phase Diagram

FIGURE 1
Eh/pH PHASE DIAGRAM

The dashed lines define Eh-pH boundaries commonly encountered in soils and sediments.



* Note the Eh values plotted on this diagram are corrected for the reference electrode voltage: 244 mV units must be added to the measured value when a separate calomel electrode is used, or 199 mV units must be added if a combination platinum electrode is used.

Mercury in Liquid Waste

(Automated Cold-Vapor Technique)

Reference Method No.: **EPA 7470A**

Reference: SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Update II, September 1994.

1. Scope and Application

Matrices: Method 7470 is a cold-vapor atomic absorption procedure approved for determining the concentration of mercury in mobility-procedure extracts, aqueous wastes, and ground waters. (Method 7470 can also be used for analyzing certain solid and sludge-type wastes; however, Method 7471 is usually the method of choice for these waste types.) All samples must be subjected to an appropriate dissolution step prior to analysis.

Definitions: See Alpha Laboratories Quality Manual Appendix A.

The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one or more of the following laboratory personnel before performing the modification: Area Supervisor, Department Supervisor, Laboratory Director, or Quality Assurance Officer.

This method is restricted to use by or under the supervision of analysts experienced in the operation of the Mercury Analyzer and in the interpretation of Mercury data. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

2. Summary of Method

Prior to analysis, the liquid samples must be prepared according to the procedure discussed in this method.

Method 7470, a cold-vapor atomic absorption technique, is based on the absorption of radiation at 253.7-nm by mercury vapor. The mercury is reduced to the elemental state and aerated from solution in a closed system. The mercury vapor passes through a cell positioned in the light path of an atomic absorption spectrophotometer. Absorbance (peak height) is measured as a function of mercury concentration.

2.1 Method Modifications from Reference

2.1.1 A smaller sample sized is prepared, and therefore proportionately less reagent volumes are used.

2.1.2 The original method does not address the automated instrument procedure.

3. Reporting Limits

The typical reporting limit for Mercury is 0.0002mg/L. This satisfies Massachusetts, GW1 and GW 2 criteria. Connecticut mobility criteria for SPLP is 0.0004mg/L, Rhode Island is 0.002mg/L, and the Drinking Water reporting limit is 0.0002mg/L.

4. Interferences

Potassium permanganate is added to eliminate possible interference from sulfide. Concentrations as high as 20 mg/L of sulfide as sodium sulfide do not interfere with the recovery of added inorganic mercury from reagent water.

Copper has also been reported to interfere; however, copper concentrations as high as 10 mg/L had no effect on recovery of mercury from spiked samples.

Seawaters, brines, and industrial effluents high in chlorides require additional permanganate (as much as 25 mL) because, during the oxidation step, chlorides are converted to free chlorine, which also absorbs radiation of 253.7 nm. Care must therefore be taken to ensure that free chlorine is absent before the mercury is reduced and swept into the cell. This may be accomplished by using an excess of hydroxylamine sulfate reagent (25 mL). Both inorganic and organic mercury spikes have been quantitatively recovered from seawater by using this technique.

5. Health and Safety

The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material safety data sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

Mercury compounds are highly toxic if swallowed, inhaled, or absorbed through the skin. Analysis is conducted under a laboratory exhaust hood. The analyst must wear chemical resistant gloves when handling concentrated mercury standards.

The acidification of samples containing reactive materials may result in the release of toxic gases, such as cyanides or sulfides. Therefore, the acidification of samples is to be conducted under a laboratory exhaust hood.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection

Samples are collected in either glass or plastic containers.

6.2 Sample Preservation

Samples are preserved with HNO_3 to a pH of <2.

6.3 Sample Shipping

No special shipping requirements.

6.4 Sample Handling

Samples are stored under refrigeration at 4 ± 2°C and analyzed as soon as possible after collection. The samples have a 28-day holding time from the time of collection.

7. Equipment and Supplies

Instrumentation:

Perkin Elmer FIMS 100 Atomic absorption spectrophotometer: Use instrument settings recommended by the manufacturer. The PE FIMS is designed specifically for the measurement of mercury using the cold-vapor technique with BOC (background offset correction) performed by a survey scan prior to each sample introduction. PE S10 autosampler is coupled to the instrument.

Cetac M-6100 Atomic absorption spectrophotometer: Use instrument settings recommended by the manufacturer. This instrument employs a reference cell off-set correction and full automation through the CETAC software. A Cetac ASX-260 autosampler is coupled to the instrument.

Nippon Instrument model# RA-4300A analyzer with integrated 80 position autosampler:

The instrument adds a stannous chloride (II) solution to the sample post digestion, the divalent mercury ion (Hg2+) is reduced to zero-valent metallic mercury and turns into mercury gas by bubbling. Hg2++SnCl2 → Hg0 ↑
After removing the acid mist and water vapor generated by bubbling with an electronic cooling unit, the instrument measures the absorbance of mercury at 253.7 nm absorption wavelength. It measures the known mercury amount, creates a calibration curve, and then calculates the mercury amount from the absorbance.

7.1 Graduated cylinder: Rinse once with 50% HNO_3 and then rinse with reagent water prior to use.

7.2 Volumetric Flasks, Class A, various volumes: Rinse once with 50% HNO_3 and then rinse with reagent water prior to use.

7.3 Heating Block: Environmental Express HotBlock, 48 position capacity, able to maintain 95˚C +/-3.

7.4 50 mL Digestion Tubes: Polypropylene, graduated.

7.5 50 mL Digestion Tube Rack: 48 position, racklock

7.6 Pump tubing: Environmental Express, three stop and two in various IDs.

7.7 PTFE membranes: Whatman TE37 disks.

7.8 Dilution vials: 20mL capacity, used to prepare analytical dilutions.

7.9 Low Dust Laboratory Wipes

7.10 Compressed Air

7.11 Whatman 41 filter paper or equivalent

8. Reagents and Standards

8.1 Reagent Water: Reagent water is DI water shown to be interference free. All references to water in this method will refer to reagent water unless otherwise specified.

8.2 Sulfuric acid (H_2SO_4), concentrated: Reagent grade. Store at room temperature in an appropriately designated acid cabinet.

8.3 Hydrochloric acid, concentrated: Trace Metal grade. Store at room temperature in an appropriately designated acid cabinet.

8.4 Carrier, Hydrochloric Acid, 3%: This is the ***carrier*** for the Instrument. In a 1L volumetric flask, add 30mL concentrated trace grade HCl (Section 8.3). Bring to volume with reagent water. Store at room temperature, prepare daily as needed.

8.5 Reductant, Stannous Chloride in 3% HCl: This is the ***reductant*** for the Instrument. In a 1L volumetric flask, add 30mL concentrated trace grade HCl and 11g $SnCl_2 \cdot 2H_20$. Mix to dissolve the solid and bring to volume with reagent water. Store at room temperature, prepare daily as needed.

8.6 Nitric acid (HNO_3), concentrated: Trace metal grade of low mercury content. If a high reagent blank is obtained, it may be necessary to distill the nitric acid. Store at room temperature in an appropriately designated acid cabinet.

8.7 Sodium chloride-hydroxylamine hydrochloride solution: Dissolve 12 g of sodium chloride and 12 g of hydroxylamine hydrochloride in reagent water and dilute to 100mL. Store at room temperature. Expires one month from date of preparation.

8.8 Potassium permanganate, mercury-free, 5% solution (w/v): Dissolve 5 g of potassium permanganate in 100 mL of reagent water. Store at room temperature. Expires one month from date of preparation.

8.9 Potassium persulfate, 5% solution (w/v): Dissolve 5 g of potassium persulfate in 100 mL of reagent water. Store at room temperature. Expires one month from date of preparation.

8.10 Mercury Stock Standard, 1000ppm: Purchased from a commercial source with a certificate of analysis. Purchase three different sources. Store at room temperature. Expires upon manufacturer's specification.

8.11 Mercury Stock Calibration Standard, 10ppm: To a 100mL volumetric flask, add 5mL of concentrated HNO_3, 2.5mL of concentrated H_2SO_4 and 1000ppm Mercury Stock Standard (Section 8.10, use one source). Bring to volume with reagent water. Store at room temperature. Expires one month from date of preparation.

8.12 Mercury Working Calibration Standard / Matrix Spike Solution, 0.1ppm: To a 100mL volumetric flask, add 5mL of concentrated HNO_3, 2.5mL of concentrated H_2SO_4 and 1mL of 10ppm Mercury Stock Standard (Section 8.11). Bring to volume with reagent water. Store at room temperature. Make fresh daily.

8.13 Mercury Calibration Standards: All calibration standards are prepared daily.

8.13.1 0 ppm Calibration Standard: Add 10 mL of reagent water to a polypropylene digestion vessel. This aliquot may be used for the CCB. Another separate aliquot is prepared in the same manner for use as the ICB and diluent for sample dilutions.

8.13.2 **0.0002ppm Calibration Standard:** Add 10 mL of reagent water to a polypropylene digestion vessel. Pipet 0.05 mL of 0.1ppm Mercury Working Stock (Section 8.12) to the digestion vessel. Bring to a final volume of 25 mL.

8.13.3 **0.001ppm Calibration Standard:** Add 10 mL of reagent water to a polypropylene digestion vessel. Pipet 0.25 mL of 0.1ppm Mercury Working Stock (Section 8.12) to the digestion vessel. Bring to a final volume of 25 mL.

8.13.4 **0.002ppm Calibration Standard** Add 10 mL of reagent water to a polypropylene digestion vessel. Pipet 0.5 mL of 0.1ppm Mercury Working Stock (Section 8.12) to the digestion vessel. Bring to a final volume of 25 mL.

8.13.5 **0.005ppm Calibration Standard/Continuing Calibration Verification Standard:** Add 10 mL of reagent water to a polypropylene digestion vessel. Pipet 1.25 mL of 0.1ppm Mercury Working Stock (Section 8.12) to the digestion vessel. Bring to a final volume of 25 mL.

8.13.6 **0.010ppm Calibration Standard / Post Analytical Spike Solution:** Add 10 mL of reagent water to a polypropylene digestion vessel. Pipet 2.5 mL of 0.1ppm Mercury Working Stock (Section 8.12) to the digestion vessel. Bring to a final volume of 25 mL.

8.13.7 **0.020ppm Calibration Standard / Post Analytical Spike Solution:** Add 10 mL of reagent water to a polypropylene digestion vessel. Pipet 5.0 mL of 0.1ppm Mercury Working Stock (Section 8.12) to the digestion vessel. Bring to a final volume of 25 mL.

8.14 Mercury Stock LCS Standard, 10ppm: To a 100mL volumetric flask add 25mL of reagent water and 5mL of concentrated HNO_3 (Section 8.6). Add 1mL of 1000ppm Mercury Stock Standard (Section 8.10). Bring to volume with reagent water. Store at room temperature. Expires one month from date of preparation.

8.15 Mercury Working LCS Standard, 0.1ppm: To a 100mL volumetric flask add 25mL of reagent water and 5mL concentrated HNO_3 (Section 8.6). Add 1mL of 10ppm Stock LCS Standard (Section 8.14). Bring to volume with reagent water. Store at room temperature. Expires one week from date of preparation.

8.16 Mercury LCS Standard, 0.001ppm: Prepare daily with each batch of samples. To a 50mL digestion vessel add 10mL of reagent water Add 0.25 mL of 0.1ppm Working LCS Standard (Section 8.15). Bring to a final volume of 25mL and carry through entire digestion process as in Section 10.1.1.

8.17 Mercury Stock ICV Standard, 10ppm: To a 100mL volumetric flask add 25mL of reagent water and 5mL of concentrated HNO_3 (Section 8.6). Add 1mL of 1000ppm Mercury Stock Standard (Section 8.10-use alternate source than that used for both the calibration standards and the LCS Stock Standard). Bring to volume with reagent water. Store at room temperature. Expires one month from date of preparation.

8.18 Mercury Working ICV Standard, 0.3ppm: To a 100mL volumetric flask add 25mL of reagent water and 5mL of concentrated HNO_3 (Section 8.6). Add 3mL of 10ppm Stock ICV Standard (Section 8.5). Bring to volume with reagent water. Store at room temperature. Expires one week from date of preparation.

8.19 Mercury ICV Standard, 0.003ppm: Prepare daily with each batch of samples. To a 25mL digestion vessel add 10mL of reagent water. Add 0.25mL of 0.3ppm Working ICV Standard (Section 8.18). Bring to a 25mL final volume with reagent water and carry through entire digestion process as in Section 10.1.1..

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 Blank(s)

The ICB, CCB, and Method Blank: A 25mL aliquot of 0ppm calibration standard brought through the preparation procedure as outlined in Section 10.1.1 . Blank results must be <RL. See Section 12.1 for corrective action. An ICB is analyzed after the initial calibration or re-calibration. The CCB is analyzed at every 10 sample injection interval. Method Blank is analyzed once per batch of samples; batch consists of 20 samples.

9.2 Laboratory Control Samples (LCS)

The LCS Standard consists of a 0.001ppm Mercury LCS Standard (Section 8.16). This standard is brought through the preparation procedure as outlined in Section 10.1.1. The LCS Standard must be recovered within ± 20% of the true value. See Section 12.3 for corrective action. The LCS Standard is analyzed once per batch of samples. A batch consists of 20 samples.

9.3 Initial Calibration verification (ICV)

The ICV Standard consists of a 25mL aliquot of 0.003ppm Mercury ICV Standard (Section 8.19). The ICV must be recovered within 10% of the true value. See Section 12.2 for corrective action.

9.4 Continuing Calibration Verification (CCV)

The CCV Standard consists of a 0.010ppm calibration standard (Section 8.13.3). The CCV must be recovered within 20% of the true value. See Section 12.2 for corrective action.

9.5 Matrix Spike

A matrix spike is analyzed once per batch of samples. A batch consists of 20 samples for monitoring wells, surface waters, influents and effluents. Prepare the matrix spike at 0.005ppm by adding 1.25mL of 0.1ppm Mercury Stock Standard (Section 8.3) to 25mL of the selected QC sample. The final concentration of the matrix spike is 0.005mg/L.

The matrix spike sample is brought through the preparation procedure as outlined in Section 10.1. A matrix spike is analyzed once per batch of samples. A batch consists of 20 samples for monitoring wells and surface waters. The recovery of the matrix spike must be between 75 – 125% (using the calculation in Section 11.2).

If the recovery of the matrix spike is out of range, a post-analytical spike is analyzed. Prepare the post analytical spike by adding 5mL of 0.010ppm Calibration Standard / Post Analytical Spike Solution (Section 8.1.6) and 5mL of the sample digestate to a 50mL centrifuge tube for a final concentration of 0.005mg/L. Analyze the post spike as outlined in Section 10.3.5.

Calculate the post spike concentration as follows:

Post Analytical Spike Sample Concentration (mg/L) =

[Sample Concentration (mg/L) x (0.5)] + 0.005mg/L

The percent recovery of the post-analytical spike must be between 75 – 125%. See Section 12.4 for corrective action.

9.6 Laboratory Duplicate

A sample is analyzed in duplicate once per batch of samples. A batch consists of 20 samples for monitoring wells and surface waters. The RPD between the sample and its duplicate must be 20% or less (using the calculation in Section 11.3), See Section 12.5 for corrective action.

9.7 Method-specific Quality Control Samples

Not applicable.

9.8 Method Sequence

- Calibration Blank
- 0.0002 ppm Calibration Standard
- 0.0005 ppm Calibration Standard
- 0.001 ppm Calibration Standard
- 0.002 ppm Calibration Standard
- 0.010 ppm Calibration Standard
- 0.020 ppm Calibration Standard
- ICV
- ICB
- Ten analytical samples
- CCV
- CCB
- Ten analytical samples
- CCV
- CCB
- Etc.

10. Procedure

10.1 Equipment Set-up

10.1.1 Preparation and Digestion

Samples, Standards and All Batch QC

Transfer 25mL of well-homogenized sample (or an aliquot of the sample diluted to 25mL with reagent water) or standards (Sections 8.13.1 through 8.13.7, 8.16 and 8.19) to a 50mL centrifuge tube.

Add 1.25mL of concentrated H_2SO_4 (Section 8.2), 0.625mL of concentrated HNO_3 (Section 8.6), Add 3.75mL of Potassium Permanganate Solution, shake and add additional portions of potassium permanganate solution (if necessary) to all samples and QC, until the purple color persists for at least 15 min. (Section 8.8). Add 2mL of Potassium Persulfate Solution (Section 8.9), and heat samples for 2 hours in a 95°C +/-3

heating block. Cool, and add 1.5mL of Sodium Chloride-Hydroxylamine hydrochloride solution (Section 8.7).
Filter the sample if needed to remove any sediment or particulate.

Analyze samples and the digested calibration standards (Sections 8.13.1 through 8.13.7) are used in Section 9.2 to generate a calibration curve.

10.2 Initial Calibration

Construct a calibration curve by plotting the absorbances of prepared standards (Section 10.1.1) versus micrograms of mercury. Determine the peak height of the unknown from the absorbance maxima on the spectrometer, and read the mercury value from the standard curve. (See Section 11.)

The curve correlation coefficient (cc) must be greater than or equal to 0.995 in order for the curve to be linear. If the correlation coefficient is less than 0.995, find and correct the problem. When the problem has been corrected, re-analyze either the previous standards or new standards. When the curve has generated an acceptable cc then the analysis can continue with the ICV/ICB.

10.3 Equipment Operation and Sample Processing

Sample and standard analysis:

10.3.1 Instrument Setup

10.3.1.1 Turn the instrument on. The autosampler will initialize itself.

10.3.1.2 Choose the instrument software from the desktop menu. The autosampler will initialize again.

FIMS 100 NOTE: The instrument must be turned on before the application is started. Otherwise, an error message will result.

10.3.1.3 Enter the appropriate fields for sample identification, and data storage.

10.3.1.4 Fill the carrier and reductant bottles.

10.3.1.4.1 The Carrier is 3% HCl (Section 8.6).

10.3.1.4.2 The Reductant is 1.1% $SnCl_2$ in 3% HCl (Section 8.5).

10.3.1.5 Allow the instrument to warm up while clearing samples. Samples that are cloudy or with particulate present after clearing must be filtered through Whatman 41 filter paper (Section 7.11) before analysis.

10.3.1.6 Place carrier uptake line and reductant uptake line.

10.3.1.7 Load carrier and reductant lines into pump magazines

10.3.1.8 Load the two waste lines into the pump magazines below the roller.

10.3.1.9 Lock the magazines into place.

FIMS100 only:

10.3.1.10 Remove the cap from the liquid/vapor separator and wipe dry with a Lab Wipe (Section 7.9). Compressed air (Section 7.10) through the vapor transfer line to dry it out.

10.3.1.11 Place a PTFE membrane (Section 7.7), rough side up, in the liquid/vapor separator; replace the cap and reattach the vapor transfer line to the sample absorption cell.

10.3.1.12 Adjust the gas flow by turning the black knob below the air flow meter to obtain a reading of just over 50.

10.3.2 Calibration and Sample Analysis

10.3.2.1 The instrument will now run the calibration standards; verify a CC of 0.995 or better before proceeding with the ICV and ICB. Ten analytical samples, a CCV and CCB, ten analytical samples, CCV, CCB, etc. The CCBs and CCVs must be recovered within the proper ranges (Sections 9.4 and 9.1.3) for analysis to continue.

10.3.2.2 If the sample result is beyond 90% of the concentration of the highest point on the calibration curve or LDR study used to establish the linear range, dilute the sample extract with a portion of one of the prepared blanks (ICB, CCB or PBS) to produce an analytical result that is within the range.

10.3.3 Instrument Shut Down

10.3.3.1 When analysis is complete place reagent uptake lines in a beaker of reagent water.

10.3.3.1.1 Continue to run the pumps for several minutes to flush reagents out of the lines.

10.3.3.1.2 Continue to run the pumps for several minutes to flush reagents out of the lines.

10.3.3.2 Pull the reagent uptake lines out of the reagent water beaker to allow the pump to draw air through the lines.

10.3.3.3 Unlock the top and bottom pump magazines and remove tubing from the magazines.

10.3.3.4 Exit from the software application.

10.3.3.4.1 Dump the samples and instrument waste in the Metals/WetChem waste drum located in the transfer room.

10.4 Continuing Calibration

Continuing calibration verification samples are analyzed after every 10 samples in the sample run, as outlined in Section 10.3.5.

10.5 Preventative Maintenance

Preventative maintenance is conducted per the manufacturer's instructions. All preventative maintenance is recorded in the Instrument Maintenance Logbook.

11. Data Evaluation, Calculations and Reporting

11.1 Calculate Mercury concentration

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k_1 + k_2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k_1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

11.2 Matrix Spike Calculation

Calculate percent recovery for the Matrix Spike corrected for concentrations measured in the unfortified sample. Percent recovery is calculated using the following equation:

$$\% \text{ Recovery} = \frac{(Cm - C)}{s} \times 100$$

Where:

Cm = measured Mercury in the fortified sample
C = measured native mercury sample concentration
S = concentration equivalent of spike added to sample

11.3 Relative Percent Difference (RPD) Calculation

Calculate the Relative Percent Difference (RPD) for each Duplicate of the initial quantitated concentration (IC) and duplicate quantitated concentration (Dc) using the following formula:

$$RPD = \frac{|(IC - Dc)|}{\{(IC + Dc) / 2\}} \times 100$$

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

12.1 Method Blank Failure: When a prep blank mercury level constitutes 10% or more of analyte level determined for any sample in the batch, or is greater than 2.2x the MDL value (whichever is greater), the associated samples in the batch must be redigested (Section 10.1).

For method blanks that have concentrations greater than the RL, the data is rejected and the associated samples sent back for redigestion unless the associated sample concentrations are greater than 10x the blank concentration. In this case the blank is narrated and the results are reported without qualification.

12.2 ICV / CCV Failure: If the ICV %Recovery is outside of acceptance criteria, the ICV is reinjected. If the %Recovery is outside the acceptance criteria, the analysis is terminated until the problem is found and corrected. If the CCV %Recovery is outside of acceptance criteria, the CCV is reinjected. If the % Recovery is still outside the acceptance criteria, all samples analyzed since the last acceptable CCV must be reanalyzed following correction of the problem.

12.3 LCS Failure: If the LCS is not recovered within acceptance criteria, the LCS is reinjected. If the % Recovery is still outside the acceptance criteria, either recalibrate and rerun or the associated batch and another LCS must be redigested (Section 10.1).

12.4 Matrix Spike / Post Digestion Spike Failure: If the recovery of the matrix spike is outside of the acceptance criteria, a post digestion spike is performed (Section 9.54). If the post digestion spike is outside of 75 – 125%, a narrative must be included with the data. (Section 10.1).

12.5 Duplicate Failure: If the RPD between the sample and its duplicate is greater than 20%, visually evaluate the sample matrix. If the matrix appears problematic, the sample digestate may be diluted and reanalyzed, or a narrative included with the data to explain the matrix problem.

13. Method Performance

13.1 Method Detection Limit Study (MDL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

The laboratory follows the procedure to determine the MDL, LOD, and/or LOQ as outlined in Alpha SOP 1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

Refer to Alpha SOP 1739 for further information regarding IDC/DOC Generation.

13.2.1 Initial (IDC)

The analyst must make an initial, one-time, demonstration of the ability to generate acceptable accuracy and precision with this method, prior to the processing of any samples.

13.2.2 Continuing (DOC)

The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

Refer to Alpha's Chemical Hygiene Plan and Waste Management and Disposal SOP for further pollution prevention and waste management information.

15. Referenced Documents

Chemical Hygiene Plan

SOP/1732 DL/LOD/LOQ Generation

SOP/1739 IDC/DOC Generation

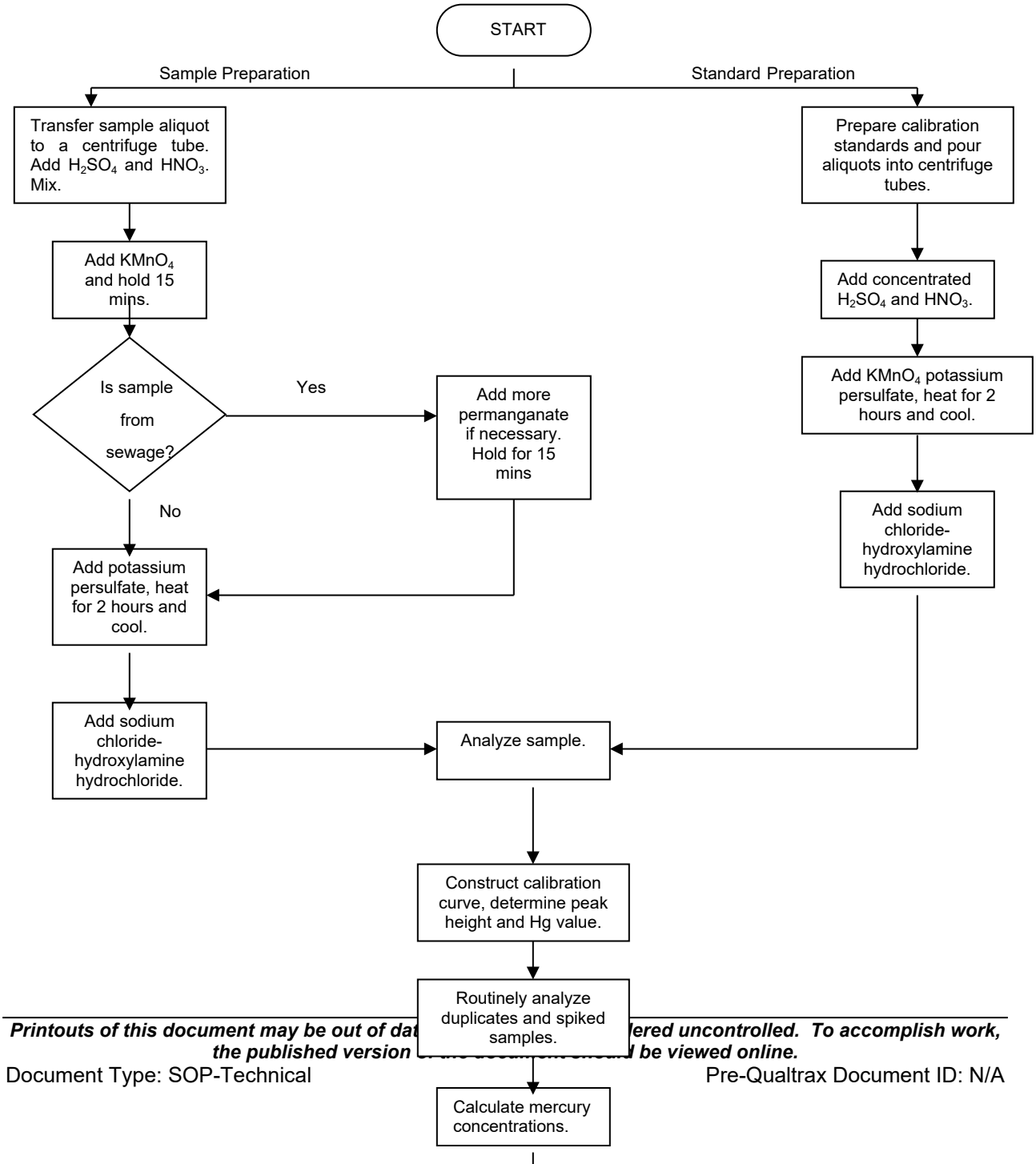
SOP/1797 Waste Management and Disposal SOP

16. Attachments

Figure 1: Method 7470A Flow Chart

Figure 1

Method 7470A Flow Chart



END

Mercury in Solid or Semisolid Waste
(Manual Cold-Vapor Technique)

Reference Method No.: **EPA 7471B**

Reference: SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Update III, February 2007.

1. Scope and Application

Matrices: Method 7471 is approved for measuring total mercury (organic and inorganic) in soils, sediments, bottom deposits, and sludge-type materials. All samples must be subjected to an appropriate dissolution step prior to analysis. If this dissolution procedure is not sufficient to dissolve a specific matrix type or sample, then this method is not applicable for that matrix.

Definitions: Refer to Alpha Analytical Quality Manual.

The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one or more of the following laboratory personnel before performing the modification: Area Supervisor, Department Supervisor, Laboratory Director, or Quality Assurance Officer.

This method is restricted to use by or under the supervision of analysts experienced in the operation of the Mercury Analyzer and in the interpretation of Mercury data. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability..

2. Summary of Method

Prior to analysis, the solid or semi-solid samples must be prepared according to the procedures discussed in this method.

Method 7471, a cold-vapor atomic absorption method, is based on the absorption of radiation at the 253.7-nm wavelength by mercury vapor. The mercury is reduced to the elemental state and aerated from solution in a closed system. The mercury vapor passes through a cell positioned in the light path of an atomic absorption spectrophotometer. Absorbance (peak height) is measured as a function of mercury concentration.

2.1 Method Modifications from Reference

Alpha analyzes only one 0.3g aliquot of sample. The original method does not address the automated instrument procedure. A reduced volume of sample is digested in disposable digestion tubes on a hot block digestor.

3. Reporting Limits

The reporting limit for this method is 0.08mg/Kg.

4. Interferences

Potassium permanganate is added to eliminate possible interference from sulfide. Concentrations as high as 20 mg/Kg of sulfide, as sodium sulfide, do not interfere with the recovery of added inorganic mercury in reagent water.

Copper has also been reported to interfere; however, copper concentrations as high as 10 mg/Kg had no effect on recovery of mercury from spiked samples.

Samples high in chlorides require additional permanganate (as much as 25 mL) because, during the oxidation step, chlorides are converted to free chlorine, which also absorbs radiation of 253 nm. Care must therefore be taken to ensure that free chlorine is absent before the mercury is reduced and swept into the cell. This may be accomplished by using an excess of hydroxylamine sulfate reagent (25 mL).

Certain volatile organic materials that absorb at this wavelength may also cause interference. A preliminary run without reagents should determine if this type of interference is present.

5. Health and Safety

The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material safety data sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

Because mercury vapor is toxic, precaution must be taken to avoid its inhalation.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection

Samples may be collected in plastic or glass containers.

6.2 Sample Preservation

None.

6.3 Sample Shipping

No special shipping requirements.

6.4 Sample Handling

Samples are stored under refrigeration at 4°C and analyzed as soon as possible after collection. The samples have a 28-day holding time from the time of collection.

7. Equipment and Supplies

7.1 Instrumentation:

Perkin Elmer FIMS 100 Atomic absorption spectrophotometer: Use instrument settings recommended by the manufacturer. The PE FIMS is designed specifically

for the measurement of mercury using the cold-vapor technique with BOC (background offset correction) performed by a survey scan prior to each sample introduction. PE S10 autosampler is coupled to the instrument.

Cetac M-6100 Atomic absorption spectrophotometer: Use instrument settings recommended by the manufacturer. This instrument employs a reference cell off-set correction and full automation through the CETAC software. A Cetac ASX-260 autosampler is coupled to the instrument.

Nippon Instrument model# RA-4300A analyzer with integrated 80 position autosampler:

The instrument adds a stannous chloride (II) solution to the sample post digestion, the divalent mercury ion (Hg2+) is reduced to zero-valent metallic mercury and turns into mercury gas by bubbling. $Hg2{+}{+}SnCl2 \rightarrow Hg0 \uparrow$

After removing the acid mist and water vapor generated by bubbling with an electronic cooling unit, the instrument measures the absorbance of mercury at 253.7 nm absorption wavelength. It measures the known mercury amount, creates a calibration curve, and then calculates the mercury amount from the absorbance.

7.2 Hot Block Digestor: Environmental Express, 54 position, capable of maintaining a temperature of 95°C +/-3°C.

7.3 Graduated cylinder. Rinse once with 50% Nitric Acid, then rinse with reagent water prior to use.

7.4 Volumetric Flasks, Class A, various volumes. Rinse once with 50% Nitric Acid, then rinse with reagent water prior to use.

7.5 Polypropylene Digestion Vessels: 50 mL volume, with plastic screw caps

7.6 Pump Tubing: Environmental Express, three stop and two stop tubing in various IDs.

7.7 PTFE membranes: Pall TF1000 disks

7.8 Dilution vials: 20mL capacity, used when making analytical dilutions.

7.9 Laboratory Wipes

7.10 Compressed Air

7.11 Whatman 41 or equivalent filter paper

7.12 Eppendorf pipets: Accurate means to make trace standards

8. Reagents and Standards

8.1 Reagent Water: Reagent water is DI water shown to be interference free. All references to water in this method refer to reagent water unless otherwise specified.

8.2 Aqua regia: Prepare immediately before use by carefully adding three volumes of concentrated HCl to one volume of concentrated HNO_3.

8.3 Concentrated Nitric Acid, (HNO_3): Trace grade. Store at room temperature in the appropriately marked acid cabinet.

8.4 Concentrated Hydrochloric Acid, (HCl): Trace grade. Store at room temperature in the appropriately marked acid cabinet.

8.5 Reductant, Stannous Chloride in 3% HCl: This is the ***reductant*** for the Instrument. In a 1L volumetric flask, add 30mL concentrated trace grade HCl and 11g $SnCl_2 \cdot 2H_20$. Mix to dissolve the solid and bring to volume with reagent water. Store at room temperature, prepare as needed.

8.6 Carrier, Hydrochloric Acid, 3%: This is the ***carrier*** for the instrument. In a 1L volumetric flask, add 30mL concentrated trace grade HCl (Section 8.4). Bring to volume with reagent water. Store at room temperature, prepare as needed.

8.7 Potassium permanganate, mercury-free, 5% solution (w/v): Dissolve 5 g of potassium permanganate in 100 mL of reagent water. Store at room temperature.

8.8 Sodium chloride-hydroxylamine hydrochloride solution: Dissolve 12 g of sodium chloride and 12 g of hydroxylamine hydrochloride in reagent water and dilute to 100 mL. Store at room temperature.

8.9 Mercury stock solution, 1000ppm: This solution is purchased commercially prepared with a certificate of analysis. Three solutions are purchased, each from a different source. Store at room temperature. Expires according to manufacturer's specifications.

8.9.1 10ppm Mercury Stock Standard: To a 100mL volumetric flask, add 5mL of concentrated HNO_3 and 1.0mL of 1000ppm Mercury Stock Solution (Section 8.9). Bring to volume with reagent water. Store at room temperature. Expires one month from date of preparation.

8.9.1.1 0.1ppm Mercury Working Stock / Matrix Spike Solution: To a 500mL volumetric flask, add 5mL of concentrated HNO_3 and 5 mL of 10ppm Mercury Stock Standard (Section 8.9.1). Bring to volume with reagent water. Store at room temperature. Expires one week from date of preparation.

8.9.2 10ppm Mercury ICV Stock Standard: To a 100mL volumetric flask, add 5mL of concentrated HNO_3 and 1.0mL of Mercury Stock Solution (Section 8.9, from an alternate source than that used in Section 8.9.1). Bring to volume with reagent water. Store at room temperature. Expires one month from date of preparation.

8.9.2.1 0.3ppm Mercury ICV Working Stock: To a 100mL volumetric flask, add 5mL of concentrated HNO_3 and 3.0mL of 10ppm Hg ICV Stock Standard (Section 8.9.2). Bring to volume with reagent water. Store at room temperature. Expires one week from date of preparation.

8.9.3 10ppm Mercury LCS Stock Standard: To a 100mL volumetric flask, add 5mL of concentrated HNO_3 and 1.0mL of 1000ppm Mercury Stock Solution (Section 8.9, from an alternate source than that used in Sections 8.9.1 and 8.9.2). Bring to volume with reagent water. Store at room temperature. Expires one month from date of preparation.

8.9.3.1 0.1ppm Mercury LCS Working Stock: To a 100mL volumetric flask, add 5mL of concentrated HNO_3 and 1.0mL of 10ppm Mercury LCS Stock Standard (Section

8.9.3). Bring to volume with reagent water. Store at room temperature. Expires one week from date of preparation.

8.10 SRM: Purchased from ERA in 300-500g lots.

9. Quality Control and Data Assessment

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 Blank(s)

The Method Blank consists of the 0ppm standard as prepared in Section 10.1.2.1.1. Analyze one Method Blank per analytical batch of twenty samples or less. The Method Blank must be less than the Reporting Limit (RL). See Section 12.1 for corrective action.

9.1.1 PBS

A preparation blank is analyzed once per batch of twenty samples or less. It is prepared in the same manner as the 0ppm standard (Section 10.1.2.1.1). The PBS must be recovered within ± 0.2 µg/L.

9.1.2 ICB

The ICB is analyzed after the ICV, and is prepared in the same manner as the 0ppm standard (Section 10.1.2.1.1). The ICB must be recovered within ± 0.2 µg/L.

9.1.3 CCB

The CCB is analyzed after the CCV. It is prepared in the same manner as the 0ppm standard (Section 10.1.2.1.1). The CCB must be recovered within ± 0.2 µg/L.

9.2 Laboratory Control Sample (LCS)

The LCS is analyzed once per each analytical batch of twenty samples or less. It is prepared in the same manner as in Section 10.1.2.3. The LCS must be recovered within 80 – 120% of the true value. See Section 12.3 for corrective action.

9.3 Initial Calibration Verification (ICV)

The ICV is analyzed after the calibration curve. It is prepared in the manner specified in Section 10.1.2.2. The ICV must be recovered within ± 10% of the true value. See Section 12.2 for corrective action.

9.4 Continuing Calibration Verification (CCV)

The CCV is analyzed after every ten analytical samples. It is prepared in the same manner as the 5.0ppb calibration standard (Section 10.1.2.1.5). The CCV must be recovered within 20% of the true value. See Section 12.2 for corrective action.

9.5 Matrix Spike

Analyze one matrix spike per twenty or less analytical samples. The recovery of the matrix spike must be between 80 – 120%. Calculate percent recovery using Section 11.2.

If the recovery of the matrix spike is out of range, a post-analytical spike is analyzed. Prepare the post analytical spike by adding 1.25mL of 0.020ppm Calibration Standard

(Section 10.1.2.1.6) and 1.25mL of the sample digestate to a 15mL centrifuge tube for a final concentration of 0.0105mg/L. Analyze the post spike as outlined in Section 10.3.

Calculate the post spike concentration as follows:

Post Analytical Spike Sample Concentration (mg/L) =

[Sample Concentration (mg/L) x (0.5)] + 0.010mg/L

The percent recovery of the post-analytical spike must be between 75 – 125%.

See Section 12.4 for corrective action.

9.6 Laboratory Duplicate

Analyze one sample in duplicate per twenty or less analytical samples. The RPD between the sample and its duplicate must be ≤ 20% (as calculated in Section 11.3). See Section 12.5 for corrective action.

9.7 Method-specific Quality Control Samples

None

9.8 Method Sequence

- Sample preparation
- Sample digestion
- Standards preparation:
  - Calibration standards
  - ICV standard
  - LCS standard
- Standards digestion
- Analysis of calibration standards
- Generation of calibration curve
- Analysis of samples and standards:
  - ICV
  - ICB
  - analytical samples
  - CCV
  - CCB
  - analytical samples
  - CCV
  - CCB
  - etc.

10. Procedure

10.1 Equipment Set-Up

10.1.1 Sample preparation: Weigh a 0.3-g portion of untreated and homogenized sample and place in the bottom of a polypropylene digestion vessel. Record the weight in the laboratory notebook. NOTE: When preparing the batch, include one sample duplicate aliquot to be prepared in the same manner.

Add 2.5 mL of reagent water and 2.5 mL of aqua regia (Section 8.2). Heat 2 min on a hot block at 95°C +/-3°C. Cool; then add 15 mL reagent water, and 7.5 mL potassium permanganate solution (Section 8.7) to the digestion vessel. Wait 15 minutes to be sure the potassium permanganate is not exhausted (purple color disappears), if it does add additional potassium permanganate to all samples and QC until stable. Mix thoroughly and place in the hot block for 30 min at 95°C +/-3°C. Cool and add 3 mL of sodium chloride-hydroxylamine hydrochloride (Section 8.8) to reduce the excess permanganate.

CAUTION: Perform this addition under a hood, as Cl_2 could be evolved.

Bring up to a final volume of 50 mL with reagent water. Continue as described under Section 10.3.1.

10.1.2 Standard preparation: Standard preparation is performed each time samples are digested.

10.1.2.1 Calibration Standards

10.1.2.1.1 0 ppb: Add 10mL of reagent water to a polypropylene digestion vessel. This aliquot may be used for the CCB. Another separate aliquot is prepared for use as the ICB and the diluent for any samples with concentration greater than 90% the highest calibration standard used to determine the linear range.

10.1.2.1.2 0.5ppb: Add 10 mL of reagent water to a polypropylene digestion vessel. Using a volumetric pipet, add 0.25 mL of 0.1ppm Mercury Working Stock (Section 8.9.1.1) to the digestion vesel.

10.1.2.1.3 1.0ppb: Add 10 mL of reagent water to a polypropylene digestion vessel.. Using a volumetric pipet, add 0.5 mL of 0.1ppm Mercury Working Stock (Section 8.9.1.1) to the digestion vessel.

10.1.2.1.4 2.0ppb: Add 10 mL of reagent water to a polypropylene digestion vessel.. Using a volumetric pipet, add 1.0mL of 0.1ppm Mercury Working Stock (Section 8.9.1.1) to the digestion vessel.

10.1.2.1.5 5.0ppb/CCV: Add 10 mL of reagent water to a polypropylene digestion vessel.. Using a volumetric pipet, add 2.5 mL of 0.1ppm Mercury Working Stock (Section 8.9.1.1) to the digestion vessel.

10.1.2.1.6 10ppb: Add 10 mL of reagent water to a polypropylene digestion vessel.Using a volumetric pipet, add 5.0 mL of 0.1ppm Mercury Working Stock (Section 8.9.1.1) to the digestion vessel.

10.1.2.1.7 20ppb: Add 10 mL of reagent water to a polypropylene digestion vessel.Using a volumetric pipet, add 10.0 mL of 0.1ppm Mercury Working Stock (Section 8.9.1.1) to the digestion vessel.

10.1.2.2 ICV Standard, 3.0ppb: This standard is used for calibration verification.

Add 10.0 mL of reagent water to a digestion vessel. Using a volumetric pipet, add 0.5 mL of 0.3ppm Mercury Working Stock (Section 8.9.2.1) to the digestion vessel. Digest the ICV Standard as in Section 10.1.3.

10.1.2.3 LCS Standard, 1.0ppb: This standard is prepared and analyzed with each analytical batch.

Add 5.0mL of reagent water to a digestion vessel. Add 0.15g of SRM (Section 8.10). Digest the LCS Standard as in Section 10.1.3.

10.1.2.4 Matrix Spike, 0.001mg/L: Weigh two aliquots of the sample designated to be the batch matrix spike.

Add 10.0 mL of the reagent water to the digestion vessel containing the weighed sample aliquot. Add a 5 mL aliquot of 0.1ppm Mercury LCS Working Stock (Section 8.9.3.1). Digest the MS as in Section 10.1.3.

10.1.3 Standard Digestion:

To each standard (Sections 10.1.2.1 through 10.1.2.3), add 2.5 mL of reagent water and 2.5 mL of aqua regia (Section 8.2) and heat 2 min on the hot block at 95°C +/- 3°C. Allow the standard to cool; add 15 mL reagent water and 7.5 mL of $KMnO_4$ solution (Section 8.7) to each bottle and return to the hot block for 30 min. Cool and add 3 mL of sodium chloride-hydroxylamine hydrochloride solution (Section 8.8) to reduce the excess permanganate. Bring up to final volume of 50 mL with reagent water, continue as described in Section 10.3.3.

Note: Alternate volumes of standards may be made base on need as long as they are made with the same proportions as describe above.

10.2 Initial Calibration

Construct a calibration curve by plotting the absorbances of prepared standards (Section 10.1.2) versus micrograms of mercury. (See Section 11.1.) Determine the peak height of the unknown from the absorbance maxima on the spectrometer, and read the mercury value from the standard curve.

The curve correlation coefficient (cc) must be greater than or equal to 0.995 in order for the curve to be linear. If the correlation coefficient is less than 0.995, find and correct the problem. When the problem has been corrected, re-analyze either the previous standards or new standards. When the curve has generated an acceptable cc, then the analysis can continue with the ICV/ICB.

Analyze an Initial Calibration Verification Standard (ICV) (Section 9.3), an Initial Calibration Blank sample (ICB) (Section 9.1.2) at the start of the analytical run. The results for the ICV must be within 10% of the true value. If results are outside this range, refer to Section 12.2 for corrective action.

10.3 Equipment Operation and Sample Processing

10.3.1 Instrument Setup

10.3.1.1 Turn the instrument on. The autosampler will initialize itself.

10.3.1.2 Choose the instrument software from the desktop menu. The autosampler will initialize again.

FIMS 100 NOTE: The instrument must be turned on before the application is started. Otherwise, an error message will result.

10.3.1.3 Enter the appropriate fields for sample identification, and data storage.

10.3.1.4 Fill the carrier and reductant bottles.

10.3.1.4.1 The Carrier is 3% HCl (Section 8.6).

10.3.1.4.2 The Reductant is 1.1% $SnCl_2$ in 3% HCl (Section 8.5).

10.3.1.5 Allow the instrument to warm up while clearing samples. Samples that are cloudy or with particulate present after clearing must be filtered through Whatman 41 filter paper (Section 7.11) before analysis.

10.3.1.6 Place carrier uptake line and reductant uptake line.

10.3.1.7 Load carrier and reductant lines into pump magazines

10.3.1.8 Load the two waste lines into the pump magazines below the roller.

10.3.1.9 Lock the magazines into place.

FIMS100 only:

10.3.1.10 Remove the cap from the liquid/vapor separator and wipe dry with a Lab Wipe (Section 7.9). Compressed air (Section 7.10) through the vapor transfer line to dry it out.

10.3.1.11 Place a PTFE membrane (Section 7.7), rough side up, in the liquid/vapor separator; replace the cap and reattach the vapor transfer line to the sample absorption cell.

10.3.1.12 Adjust the gas flow by turning the black knob below the air flow meter to obtain a reading of just over 50.

10.3.2 Calibration and Sample Analysis

10.3.2.1 The instrument will now run the calibration standards; verify a CC of 0.995 or better before proceeding with the ICV and ICB. Ten analytical samples, a CCV and CCB, ten analytical samples, CCV, CCB, etc. The CCBs and CCVs must be recovered within the proper ranges (Sections 9.4 and 9.1.3) for analysis to continue.

10.3.2.2 If the sample result is beyond 90% of the concentration of the highest point on the calibration curve or LDR study used to establish the linear range, dilute the sample extract with a portion of one of the prepared blanks (ICB, CCB or PBS) to produce an analytical result that is within the range.

10.3.3 Instrument Shut Down

10.3.3.1 When analysis is complete place reagent uptake lines in a beaker of DI water.

10.3.3.1.1 Continue to run the pumps for several minutes to flush reagents out of the lines.

10.3.3.1.2 Continue to run the pumps for several more minutes to flush the lines thoroughly with DI water.

10.3.3.2 Pull the reagent uptake lines out of the DI water beaker to allow the pump to draw air completely through the lines.

10.3.3.3 Unlock the top and bottom pump magazines and remove tubing from the magazines.

10.3.3.4 Exit from the software application.

Note: This procedure must be followed every time the instrument is shut down to prevent water or reagents from being draw back into the instrument which can cause severe damage.

10.3.3.4.1 Dump the samples and instrument waste in the Metals/WetChem waste drum located in the transfer room only after all data has been processed through final review and package generation.

10.4 Continuing Calibration

After every 10 samples, analyze a Continuing Calibration Verification Standard (CCV), and a Continuing Calibration Blank sample (CCB). Determine the concentrations from the calibration curve. The results for the CCV must be within 20% of the true value.

10.5 Preventive Maintenance

Preventative maintenance is conducted per the manufacturer's instructions. All preventative maintenance is recorded in the Instrument Maintenance Logbook.

11. Data Evaluation, Calculations and Reporting

11.1 Calculate Mercury Concentration From the Daily Calibration Curve

The curve is generated utilizing a straight-line equation defined as:

$$A = k_1 + k_2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k_1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L. This value is divided by 1000 to convert the units to mg/L. The mg/L units are converted to mg/Kg by multiplying by L/Kg. A dilution factor (DF) is applied if necessary. The Result is then divided by the % Total Solids prior to release to the client.

$$\text{Result, mg/Kg} = (\text{concentration, µg/L}) \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF}) \times (\text{L/Kg})$$

Where:

$$\text{L/Kg} = \frac{\text{Final volume of digestate, in L}}{\text{Weight of original sample, in Kg}}$$

11.2 Calculate Percent Recovery for the Matrix Spike corrected for concentrations measured in the unfortified sample. Percent recovery is calculated using the following equation:

$$\%\ \text{Recovery} = \frac{(Cm - C)}{s} \times 100$$

Where:

Cm = measured Mercury in the fortified sample
C = measured native mercury sample concentration
S = concentration equivalent of spike added to sample

11.3 Calculate the Relative Percent Difference (RPD) for each Duplicate of the initial quantitated concentration (IC) and duplicate quantitated concentration (Dc) using the following formula:

$$RPD = \frac{|(IC - Dc)|}{\{(IC + Dc) / 2\}} \times 100$$

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

12.1 Method Blank Failure

When a prep blank mercury concentration is ≥10% of the mercury concentration determined for any associated sample, or is greater than 2.2x the MDL value (whichever is greater), the entire batch associated with the prep blank must be redigested.

12.2 ICV / CCV Failure

If the ICV %Recovery is outside of acceptance criteria, analysis is terminated until the problem is found and corrected. If the CCV %Recovery is outside of acceptance criteria, all samples analyzed since the last acceptable CCV must be reanalyzed following correction of the problem.

12.3 LCS Failure

If the LCS is not recovered within acceptance criteria, the associated batch and another LCS must be redigested (Section 10.1).

12.4 Matrix Spike/Post Digestion Spike Failure

If the recovery of the matrix spike is outside of the acceptance criteria of 80 – 120%, a post digestion spike is performed (Section 9.5). If the post digestion spike is beyond 75 – 125%, the sample and its spike are redigested (Section 10.1).

12.5 Duplicate Failure

If the RPD between the sample and its duplicate is greater than 20%, visually evaluate the sample matrix. If the sample matrix appears clean, the sample and its duplicate are removed from the batch and redigested (Section 10.1). If the matrix appears problematic, the sample digestate may be diluted and reanalyzed, or a narrative included with the data to explain the matrix problem.

13. Method Performance

13.1 Method Detection Limit Study (MDL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

The laboratory follows the procedure to determine the MDL, LOD, and/or LOQ as outlined in Alpha SOP 1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

Refer to Alpha SOP 1739 for further information regarding IDC/DOC Generation.

13.2.1 Initial (IDC)

The analyst must make an initial, one-time, demonstration of the ability to generate acceptable accuracy and precision with this method, prior to the processing of any samples.

13.2.2 Continuing (DOC)

The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

Refer to Alpha's Chemical Hygiene Plan and Waste Management and Disposal SOP for further pollution prevention and waste management information.

15. Referenced Documents

Chemical Hygiene Plan

SOP/1732 DL/LOD/LOQ Generation

SOP/1739 IDC/DOC Generation

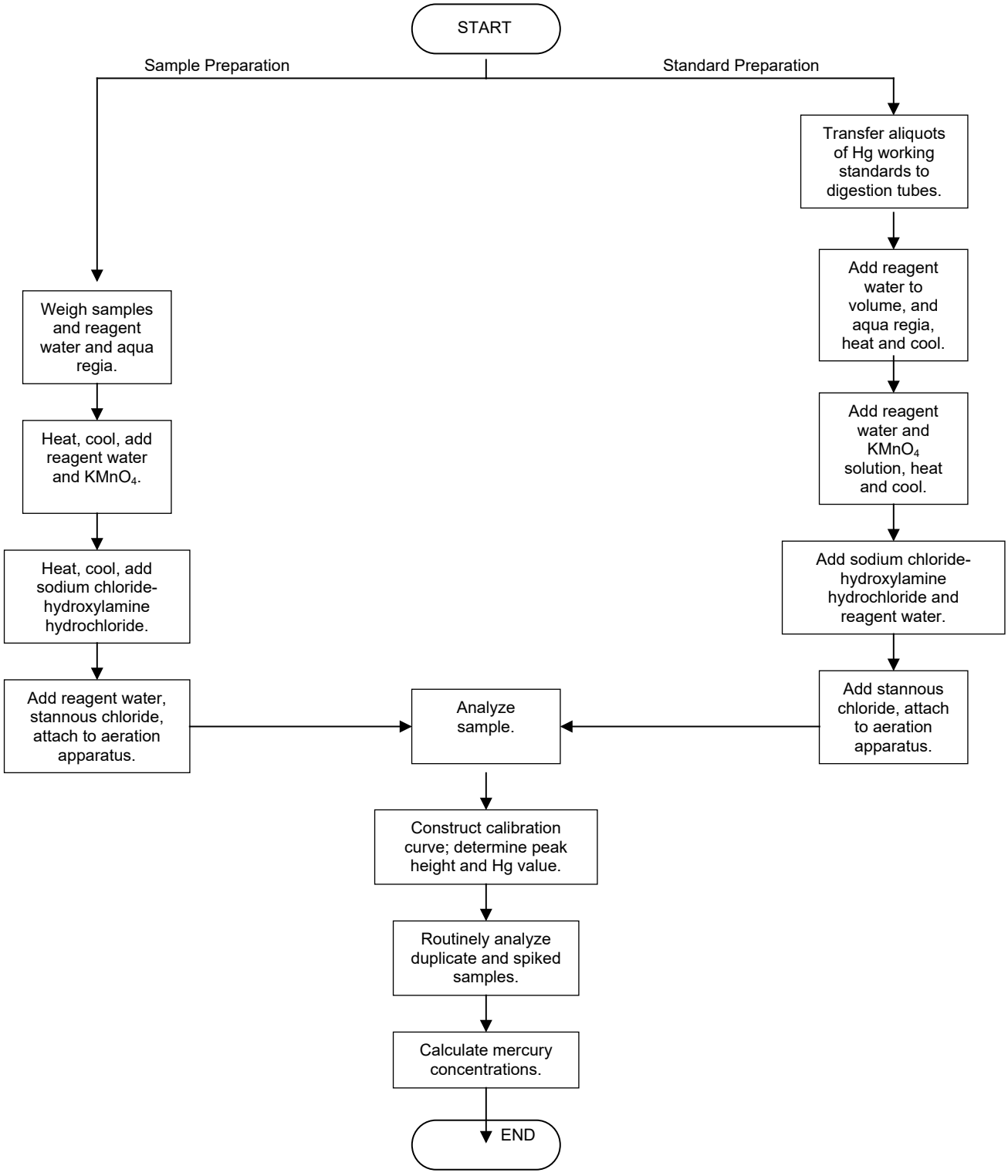
SOP/1797 Waste Management and Disposal SOP

16. Attachments

FIGURE 1: Flow Chart for Method 7471B

Figure 1

Method 7471B Flow Chart



Inductively Coupled Plasma - Atomic Emission Spectrometry

Reference Method No.: **Method 6010D** SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Update V, July, 2014.

SM 2340B, Hardness by Calculation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WPCF, 21st Edition, 1997.

1. Scope and Application

Matrices: Digestates from all matrices.

Definitions: See Alpha Laboratories Quality Manual Appendix A

Inductively coupled plasma-atomic emission spectrometry (ICP-AES) determines trace elements, including metals, in solution. The method is applicable to all of the elements listed in Table 1. All matrices, excluding filtered groundwater samples but including ground water, aqueous samples, TCLP and EP extracts, industrial and organic wastes, soils, sludge, sediments, and other solid wastes, require digestion prior to analysis. Groundwater samples that have been prefiltered and acidified will not need acid digestion unless chemical interferences are suspected. Samples which are not digested are matrix matched with the standards. Refer to Metals Preparation SOPs for the appropriate digestion procedures.

Table 1 lists the elements for which this method is applicable. Detection limits, sensitivity, and the optimum and linear concentration ranges of the elements can vary with the wavelength, spectrometer, matrix and operating conditions. Table 1 lists the recommended analytical wavelengths for the elements in clean aqueous matrices. Table 3 lists the Reported Detection Limits. The reported detection limit data may be used to estimate instrument and method performance for other sample matrices. Elements other than those listed in Table 1 may be analyzed by this method if performance at the concentration levels of interest (see Section 9) is demonstrated.

Users of the method should state the data quality objectives prior to analysis and must document and have on file the required initial demonstration performance data described in the following sections prior to using the method for analysis.

The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is made by one of the following laboratory personnel before performing the modification: Area Supervisor, Metals Manager, Laboratory Services Manager, Laboratory Director, or Quality Assurance Officer.

Use of this method is restricted to spectroscopists who are knowledgeable in the correction of spectral, chemical, and physical interferences described in this method. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

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2. Summary of Method

Prior to analysis, samples must be solubilized or digested using appropriate Sample Preparation Methods. When analyzing groundwater samples for dissolved constituents, acid digestion is not necessary if the samples are filtered and acid preserved prior to analysis.

This method describes multielemental determinations by ICP-AES using sequential or simultaneous optical systems and axial or radial viewing of the plasma. The instrument measures characteristic emission spectra by optical spectrometry. Samples are nebulized and the resulting aerosol is transported to the plasma torch. Element-specific emission spectra are produced by a radio-frequency inductively coupled plasma. The spectra are dispersed by a grating spectrometer, and the intensities of the emission lines are monitored by photosensitive devices. Background correction is required for trace element determination. Background must be measured adjacent to analyte lines on samples during analysis. The position selected for the background-intensity measurement, on either or both sides of the analytical line, will be determined by the complexity of the spectrum adjacent to the analyte line. In one mode of analysis the position used must be as free as possible from spectral interference and must reflect the same change in background intensity as occurs at the analyte wavelength measured. Background correction is not required in cases of line broadening where a background correction measurement would actually degrade the analytical result. The possibility of additional interferences named in Section 4.0 must also be recognized and appropriate corrections made; tests for their presence are described in Section 9.7. Alternatively, users may choose multivariate calibration methods. In this case, point selections for background correction are superfluous since whole spectral regions are processed.

This SOP includes the manual calculations for Total Hardness and Calcium Hardness, according to SM 2340B.

2.1 Method Modifications from Reference

None.

3. Reporting Limits

Refer to Table 3 for method Reporting Limits.

4. Interferences

4.1 Spectral

Spectral interferences are caused by background emission from continuous or recombination phenomena, stray light from the line emission of high concentration elements, overlap of a spectral line from another element, or unresolved overlap of molecular band spectra.

4.1.1 Background emission and stray light can usually be compensated for by subtracting the background emission determined by measurements adjacent to the analyte wavelength peak. Spectral scans of samples or single element solutions in the analyte regions may indicate when alternate wavelengths are desirable because of severe spectral interference. These scans will also show whether the most appropriate estimate of the background emission is provided by an interpolation from measurements on both sides of the wavelength peak or by measured emission on only one side. The locations selected for the measurement of background intensity will be determined by the complexity of the spectrum adjacent to the wavelength peak. The locations used for

routine measurement must be free of off-line spectral interference (interelement or molecular) or adequately corrected to reflect the same change in background intensity as occurs at the wavelength peak. For multivariate methods using whole spectral regions, background scans must be included in the correction algorithm. Off-line spectral interferences are handled by including spectra on interfering species in the algorithm.

4.1.2 To determine the appropriate location for off-line background correction, the user must scan the area on either side adjacent to the wavelength and record the apparent emission intensity from all other method analytes. This spectral information must be documented and kept on file. The location selected for background correction must be either free of off-line interelement spectral interference or a computer routine must be used for automatic correction on all determinations. If a wavelength other than the recommended wavelength is used, the analyst must determine and document both the overlapping and nearby spectral interference effects from all method analytes and common elements and provide for their automatic correction on all analyses. Tests to determine spectral interference must be done using analyte concentrations that will adequately describe the interference. Normally, 100 mg/L single element solutions are sufficient; however, for analytes such as iron that may be found at high concentration, a more appropriate test would be to use a concentration near the upper analytical range limit.

4.1.3 Spectral overlaps may be avoided by using an alternate wavelength or can be compensated by equations that correct for interelement contributions. Instruments that use equations for interelement correction require the interfering elements be analyzed at the same time as the element of interest. When operative and uncorrected, interferences will produce false positive determinations and be reported as analyte concentrations. More extensive information on interferant effects at various wavelengths and resolutions is available in reference wavelength tables and books. Users may apply interelement correction equations determined on their instruments with tested concentration ranges to compensate (off line or on line) for the effects of interfering elements. For multivariate methods using whole spectral regions, spectral interferences are handled by including spectra of the interfering elements in the algorithm. The interferences listed are only those that occur between method analytes. Only interferences of a direct overlap nature are listed. These overlaps were observed with a single instrument having a working resolution of 0.035 nm.

4.1.4 When using inter-element correction equations, the interference may be expressed as analyte concentration equivalents (i.e. false analyte concentrations) arising from 100 mg/L of the interference element. For example, assume that As is to be determined (at 193.696 nm) in a sample containing approximately 10 mg/L of Al. 100 mg/L of Al would yield a false signal for As equivalent to approximately 1.3 mg/L. Therefore, the presence of 10 mg/L of Al would result in a false signal for As equivalent to approximately 0.13 mg/L. The user is cautioned that each instrument may exhibit somewhat different levels of interference. The interference effects must be evaluated for each individual instrument since the intensities will vary.

Major known interferences are Fe, Al, Ca, Mg, V, Ni, Cu, and Cr. To minimize any of these interferences, every analyte is analyzed on each instrument at or near its linear range and corrected for these interferences. This is done on an annual basis, and data is kept on file.

4.1.5 Inter-element corrections will vary for the same emission line among instruments because of differences in resolution, as determined by the grating, the entrance and exit slit widths, and by the order of dispersion. Inter-element corrections will also vary depending upon the choice of background correction points. Selecting a background correction point where an interfering emission line may appear must be avoided when practical. Inter-element corrections that constitute a major portion of an emission signal may not yield accurate data. Users must not forget that some samples may contain uncommon elements that could contribute spectral interferences.

4.1.6 The interference effects must be evaluated for each individual instrument whether configured as a sequential or simultaneous instrument. For each instrument, intensities will vary not only with optical resolution but also with operating conditions (such as power, viewing height and argon flow rate). When using the recommended wavelengths, the analyst is required to determine and document for each wavelength the effect from referenced interferences as well as any other suspected interferences that may be specific to the instrument or matrix. The analyst is encouraged to utilize a computer routine for automatic correction on all analyses.

4.1.7 The primary wavelength for each analyte is based upon the instrument manufacturer's recommendations. An alternate wavelength is chosen if there is an indication of elevated background or overlap of another spectral wavelength. The wavelength for each analyte must be as free from interferences as possible.

4.1.8 If the correction routine is operating properly, the determined apparent analyte(s) concentration from analysis of each interference solution must fall within a specific concentration range around the calibration blank. The concentration range is calculated by multiplying the concentration of the interfering element by the value of the correction factor being tested and divided by 10. If after the subtraction of the calibration blank the apparent analyte concentration falls outside of this range in either a positive or negative direction, a change in the correction factor of more than 10% should be suspected. The cause of the change must be determined and corrected and the correction factor updated. The interference check solutions must be analyzed more than once to confirm a change has occurred. Adequate rinse time between solutions and before analysis of the calibration blank will assist in the confirmation.

4.1.9 When inter-element corrections are applied, their accuracy must be verified, daily, by analyzing the spectral interference check solution. The correction factor or multivariate correction matrices tested on a daily basis. All inter-element spectral correction factors or multivariate correction matrices are verified and updated when an instrumentation change, such as in the torch, nebulizer, injector, or plasma conditions occurs. The standard solution must be inspected to ensure that there is no contamination that may be perceived as a spectral interference.

4.1.10 When inter-element corrections are <u>not</u> used, verification of absence of interferences is required.

4.1.10.1 One method is to use a computer software routine for comparing the determinative data to limits, files for notifying the analyst when an interfering element is detected in the sample at a concentration that will produce either an apparent false positive concentration, (i.e., greater than) the analyte

instrument detection limit, or false negative analyte concentration, (i.e., less than the lower control limit of the calibration blank defined for a 99% confidence interval).

4.1.10.2 Another method is to analyze an Interference Check Solution(s) which contains similar concentrations of the major components of the samples (>10 mg/L) on a continuing basis to verify the absence of effects at the wavelengths selected. These data must be kept on file with the sample analysis data. If the check solution confirms an operative interference that is >20% of the analyte concentration, the analyte must be determined using (1) analytical and background correction wavelengths (or spectral regions) free of the interference, (2) by an alternative wavelength, or (3) by another documented test procedure.

4.2 Physical

Physical interferences are effects associated with the sample nebulization and transport processes. Changes in viscosity and surface tension can cause significant inaccuracies, especially in samples containing high dissolved solids or high acid concentrations. If physical interferences are present, they must be reduced by diluting the sample, using a peristaltic pump, use of an internal standard or by using a high solids nebulizer. Another problem that can occur with high dissolved solids is salt buildup at the tip of the nebulizer, affecting aerosol flow rate and causing instrumental drift. The problem can be controlled by wetting the argon prior to nebulization, using a tip washer, using a high solids nebulizer or diluting the sample. Also, it has been reported that better control of the argon flow rate, especially to the nebulizer, improves instrument performance: this may be accomplished with the use of mass flow controllers. The test described in Section 10.3.4.1 will help determine if a physical interference is present.

4.3 Chemical

Chemical interferences include molecular compound formation, ionization effects, and solute vaporization effects. Normally, these effects are not significant with the ICP technique, but if observed, can be minimized by careful selection of operating conditions (incident power, observation position, and so forth), by buffering of the sample, by matrix matching, and by standard addition procedures. Additionally, if filtered samples are found to have an organic or sulfur like odor they are processed by heating after the addition of the acids to matrix match. Chemical interferences are highly dependent on matrix type and the specific analyte element.

4.4 Memory

Memory interferences result when analytes in a previous sample contribute to the signals measured in a new sample. Memory effects can result from sample deposition on the uptake tubing to the nebulizer and from the build-up of sample material in the plasma torch and spray chamber. The site where these effects occur is dependent on the element and can be minimized by flushing the system with a rinse blank between samples. The possibility of memory interferences must be recognized within an analytical run and suitable rinse times must be used to reduce them. The rinse times necessary for a particular element must be estimated prior to analysis. This may be achieved by aspirating a standard containing elements at a concentration ten times the usual amount or at the top of the linear dynamic range. The aspiration time for this sample must be the same as a normal sample analysis period, followed by analysis of the rinse blank at designated intervals. The length of time required to reduce analyte signals to within a factor of two of the method detection limit must be noted. Until the required rinse time is established, this method suggests a rinse period of at least 60 seconds between samples and standards. If memory interference is suspected, the sample must be reanalyzed after a rinse period of sufficient length. Alternate rinse times may be established by the analyst based upon their DQOs.

4.5 Other Interferences

4.5.1 Users are advised that high salt concentrations can cause analyte signal suppressions and confuse interference tests. If the instrument does not display negative values, fortify the interference check solution with the elements of interest at 0.5 to 1 mg/L and measure the added standard concentration accordingly. Concentrations must be within 20% of the true spiked concentration or dilution of the samples will be necessary. In the absence of measurable analyte, overcorrection could go undetected if a negative value is reported as zero.

5. Health and Safety

The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound must be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material data handling sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection

Samples are collected in plastic bottles.

6.2 Sample Preservation

If samples are for soluble metals analysis, filtration must take place prior to preservation with 1:1 HNO3 to a pH < 2. Soluble samples must be held at pH < 2 for at least 24 hours prior to digestion if not preserved at the time of filtration. Samples for total metals analysis are preserved with 1:1 HNO3 to a pH < 2. Samples must be pH <2 for at least 24 hours prior to digestion if not preserved at the time of collection.

6.3 Sample Shipping

No special shipping requirements.

6.4 Sample Handling

Samples to be analyzed for soluble metals, that have not been filtered, must be filtered and preserved within 24 hours of sample collection.

Preserved samples have a hold time of 6 months, and are stored at ambient temperature.

7. Equipment and Supplies

7.1 Inductively coupled argon plasma emission spectrometer:

- **Thermo Scientific ICAP Duo 6500 (Trace7)**

7.1.1 Computer-controlled emission spectrometer with background correction.

7.1.2 Radio-frequency generator compliant with FCC regulations.

7.1.3 Optional mass flow controller for argon nebulizer gas supply.

7.1.4 Optional peristaltic pump.

7.1.5 Optional Autosampler.

7.1.6 Argon gas supply - high purity.

7.2 Volumetric flasks of suitable precision and accuracy.

7.3 Volumetric pipets of suitable precision and accuracy.

8. Standards and Reagents

Reagent semiconductor and/or trace grade chemicals shall be used in all tests. Unless otherwise indicated, it is intended that all reagents shall conform to the specifications of the Committee on Analytical Reagents of the American Chemical Society, where such specifications are available. Other grades may be used, provided it is first ascertained that the reagent is of sufficiently high purity to permit its use without lessening the accuracy of the determination. If the purity of a reagent is in question, analyze for contamination. If the concentration of the contamination is less than the MDL then the reagent is acceptable.

8.1 Hydrochloric acid (conc), HCl. Stored at room temperature in acid resistant cabinet. Expiration date if defined by vendor.

8.2 Hydrochloric acid (1:1), HCl. Add 500 mL concentrated HCl to 400 mL DI water and dilute to 1 liter in an appropriately sized beaker. Stored at room temperature in polypropylene bottle, expiration date if defined by vendor..

8.3 Nitric acid (conc), HNO_3. Stored at room temperature in acid resistant cabinet. Expiration date if defined by vendor.

8.4 Nitric acid (1:1), HNO_3. Add 500 mL concentrated HNO_3 to 400 mL DI water and dilute to 1 liter in an appropriately sized beaker. Stored at room temperature in polypropylene bottle, expiration date if defined by vendor..

8.5 Reagent Water. All references to water in the method refer to reagent water unless otherwise specified. Reagent water will be interference free. Refer to Chapter One for a definition of reagent water.

8.6 Standard stock solutions may be purchased or prepared from ultra- high purity grade chemicals or metals (99.99% pure or greater). All stock standards are ordered through ISO and American Association for Lab Accreditation vendors. All standards are in aqueous solutions and are generally at concentrations of 1000ppm and 10,000ppm.

8.7 Mixed calibration standard solutions

Prepare mixed calibration standard solutions by combining appropriate volumes of the stock solutions in volumetric flasks. Add the appropriate types and volumes of acids so that the standards are matrix matched with the sample digestates. Care must be taken when preparing the mixed standards to ensure that the elements are compatible and stable together. Transfer the mixed standard solutions to HDPE or polypropylene bottles for storage. Fresh

mixed standards must be prepared, as needed, with the realization that concentration can change on aging as evidenced by failures in the ICV.

NOTE: If the addition of silver to the recommended acid combination results in an initial precipitation, add 15 mL of water and warm the flask until the solution clears. Cool and dilute to 100 mL with water. For this acid combination, the silver concentration must be limited to 2 mg/L. Silver under these conditions is stable in a tap-water matrix for 30 days. Higher concentrations of silver require additional HCl.
Additionally, sulfur standards are stand-alone single element standards and therefore are not to be combined in a mixed calibration standard solution.

8.8 Blanks

Three types of blanks are required for the analysis for samples. The calibration blank is used in establishing the analytical curve, and the method blank is used to identify possible contamination resulting from varying amounts of the acids used in the sample processing. The rinse blank is used to flush the system between all samples and standards.

8.8.1 The calibration blank is prepared by acidifying reagent water to the same concentrations of the acids found in the standards. Prepare a sufficient quantity to flush the system between standards and samples. The calibration blank will also be used for all initial (ICB) and continuing calibration blank (CCB) determinations (see Sections 10.2 and 10.4). Refer to Section 10.4.1.2 for acceptance criteria and/or corrective actions.

8.8.2 The method blank must contain all of the reagents in the same volumes as used in the processing of the samples. The method blank must be carried through the complete procedure and contain the same acid concentration in the final solution as the sample solution used for analysis. Refer to Section 9.1 for acceptance criteria and/or corrective actions.

8.8.3 The rinse blank consists of HNO_3 (1% or 2%) (v/v) in reagent water. Prepare a sufficient quantity to flush the system between standards and samples.

8.9 The Initial Calibration Verification Standard (ICV) and the Continuing Calibration Verification Standard (CCV)

These ICV is prepared by the analyst by combining compatible elements from a standard source different than that of the calibration standard at a concentration at or near the mid-point of the calibration curve. The CCV is prepared from the same source as the calibration standards and must be at a concentration near the mid-point of the calibration curve.

8.10 Low Level of Quantification, (LLOQ)

The LLOQ is initially verified by the analysis of at least 7 replicate samples, spiked at the LLOQ and processed through all preparation and analysis steps of the method at or below the lowest calibration point. The mean recovery and relative standard deviation of these samples provide an initial statement of precision and accuracy at the LLOQ. In most cases the mean recovery should be +/- 35% of the true value and RSD should be < 20%. In-house limits may be calculated when sufficient data points exist. Monitoring recovery of LLOQ over time is useful for assessing precision and bias.

Ongoing LLOQ verification, at a minimum, is on a quarterly basis to validate quantitation capability at low analyte concentration levels. This verification may be accomplished either with clean control material (e.g., reagent water, method blanks. Optimally, the LLOQ should be less than the desired regulatory action levels based on the stated project-specific requirements.

8.11 Spectral Interference Check Solution

These solutions are prepared to contain known concentrations of interfering elements that will provide an adequate test of the correction factors. Analysts are advised that high salt concentrations can cause analyte signal suppressions and confuse interference tests.

Single element interference checks - At a minimum, single element SIC checks must be performed for the following elements: Aluminum 500mg/L; Boron 50mg/L, Barium, 50mg/L, Calcium 500mg/L; Copper 50mg/L; Iron 200mg/L; Magnesium 500mg/L; Manganese 50mg/L; Molybdenum 20mg/L; Sodium 1000mg/L; Nickel 20mg/L; Selenium 20mg/L; Silicon 200mg/L; Tin 20mg/L; Vanadium 20mg/L; Zinc 20mg/L The absolute value of the concentration observed for any unspiked analyte in the single element SIC checks must be less than two times the analytes' LLOQ.

The concentration of the SIC checks are suggested, but become the highest concentration allowed in a sample analysis, and cannot be higher than the highest established linear range. Samples with concentrations of elements higher than the SIC check must be diluted until the concentration is less than the SIC check solution. Note that reanalysis of a diluted sample is required even if the high concentration element is not required to be reported for the specific sample, since the function of the SIC check is to evaluate spectral interferences on other elements. The single element SIC checks are performed when the instrument is setup and periodically (at least once every 6 months) thereafter.

Mixed element interference check - The mixed element SIC solution is analyzed at least once per day, immediately after the initial calibration. The concentration measured for any target analytes must be less than +/- the LLOQ. If this criterion is not met then sample analysis may not proceed until the problem is corrected, or alternatively the LLOQ may be raised to twice the concentration observed in the SIC solution. The only exceptions are those elements that have been demonstrated to be contaminants in the SIC solutions These may be present up to the concentration documented plus the LLOQ.

Mixed element SIC solution: Aluminum, 500mg/L; Calcium, 500mg/L; Iron, 200mg/L; Magnesium, 500mg/L

8.12 Ongoing Low Level of Quantification, (LLOQ)

Ongoing LLOQ verification, at a minimum, is on a quarterly basis to validate quantitation capability at low analyte concentration levels. This verification may be accomplished either with clean control material (e.g., reagent water, method blanks. Optimally, the LLOQ should be less than the desired regulatory action levels based on the stated project-specific requirements.

8.13 Internal Standard

The internal standard consists of a multi-element solution; each internal standard covers a range of the spectrum (low, middle, or high wavelengths) and the elements within that range.

5.0ug/mL Scandium

3.0ug/mL Yttrium

Note: The standard is used to monitor instrument fluctuations including but not limited to nebulization efficiency, plasma variations, environmental temperature changes, peristaltic pump pulsations, etc. Therefore, the solution used to start an analysis calibration cannot be added to or changed out during analysis without requiring subsequent full recalibration.

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 Blank(s)

Employ a minimum of one method blank per sample batch to determine if contamination or any memory effects are occurring. A method blank is a volume of reagent water carried through the same preparation process as a sample.

The method blank results must be less than ½ of the LLOQ for all analytes of concern. If the results of the method blank exceed the RDL for any analyte, perform re-analysis of a new aliquot of the method blank.

If the results continue to exceed the RDL, proceed as follows:

If all of the samples for the analyte are non-detected, and the method blank is at or above the RDL, no action is required.

If one or more associated samples for that analyte have positive results at or above the RDL, those samples must be considered to be out of control, and are re-digested and reanalyzed.

9.2 Laboratory Control Sample (LCS)

Analyze one LCSW/SRM per sample batch. A LCS/SRM sample is a spiked volume of reagent water that is brought through the entire preparation and analytical process. The LCSW must have a % Recovery of ± 20% within the actual value or within vendor control limits (95% confidence limits) for the solid SRM.

If the LCSW or SRM % Recovery is outside the acceptable limits as stated in Table 2, or outside any vendor control limits, the LCS is rerun once. If upon reanalysis the LCS is still out of control, the failed analytes are re-prepped and re-analyzed. Otherwise, a nonconformance report form is raised to document the exact problem and this form is then authorized by the QA/QC Director and/or the Laboratory Manager(s).

9.3 Initial Calibration Verification (ICV)

For all analytes and determinations, the laboratory must analyze an ICV (Section 8.9), and a calibration blank (ICB, Section 8.8.1), immediately following daily calibration. The results of the ICV are to agree within 10% of the expected value; if not, re-analyze once, if still failing terminate the analysis, correct the problem, and recalibrate the instrument.

9.4 Continuing Calibration Verification (CCV)

A calibration blank (CCB, Section 8.8.1) and a calibration verification standard (CCV, Section 8.9) must be analyzed after every tenth sample and at the end of the sample run. Analysis of the calibration verification (CCV) must verify that the instrument is within 10% of the calibration with the relative standard deviation < 5% from replicate (minimum of two) integrations.

Immediate corrective action for a failing CCV/CCB includes reanalyzing the failing standard. If the standard passes the second time then the analysis may be continued. The batch sheet is noted. If the standard fails again, instrument maintenance must be performed and the CCV/CCB standard is reanalyzed. If the standard passes, then all samples run after the last passing CCV/CCB pair must be re-analyzed.

If the standard fails after instrument maintenance, the instrument is recalibrated. A new ICV/ICB is performed, and all previous data after the last passing CCV/CCB is reanalyzed.

9.5 Matrix Spike

Analyze matrix spike samples at a frequency of one per matrix batch. The matrix spike is the same solution as used for the LCS (Table 4). A matrix spike sample is a sample brought through the entire sample preparation and analytical process.

9.5.1 The percent recovery is to be calculated as follows:

$$\% \text{ Recovery} = \frac{MS - S}{C} \times 100$$

where:

MS = Matrix Spike value
S = Sample value.
C = Concentration of the Spiking solution.

9.5.2 If the Matrix Spike falls outside of the limits as stated in Table 2, or outside any historical documentation for analytes of interest a post analytical spike is performed for the failed analytes. The same sample from which the MS/MSD aliquots were prepared should be spiked with a post digestion spike at a minimum level of 10 times and a maximum of 100 times the lower limit of quantitation. The acceptable % Recovery of the post analytical spike is 75-125%%. A nonconformance is noted in the LIMS and approved in secondary peer review and/or by the Metals Manager.

9.5.3 If the Post Spike fails the dilution test should be performed**.** If the analyte concentration is sufficiently high (minimally, a factor of 25 above the lower limit of quantitation after dilution), an analysis of a 1:5 dilution should agree within ± 20% of the original determination. If not, then a chemical or physical interference effect should be suspected.

9.6 Laboratory Duplicate

A duplicate sample is analyzed once per matrix batch. This sample is brought through the entire sample preparation and analytical process.

9.6.1 The relative percent difference between duplicate determinations is to be calculated as follows:

$$RPD = \frac{|D_1 - D_2|}{(|D_1 + D_2|)/2} \times 100$$

where:

RPD = relative percent difference.
D_1 = first sample value.
D_2 = second sample value (replicate).

9.6.2 If the Duplicate falls outside of the limits as stated in Table 2, or outside any historical documentation and the concentrations of the failing analytes are less than 5x the RL or a matrix interference is found a nonconformance is noted in the LIMS and approved in secondary peer review and/or by the Metals Manager.

9.7 Method-specific Quality Control Samples

9.7.1 Spectra Interference Check Standard

A mixed check solution is analyzed once daily (section 8.11). One solution (SIC) has only elevated concentrations of Fe, Al, Ca, Mg to ensure no interferences occur. The concentrations of the analytes of interest must have an absolute value of the LLOQ. This solution is analyzed at the beginning of the first analytical run of the day.

The high level interferences are not evaluated for recovery. If the SIC fails take corrective action which may include re-evaluation of the inter-element correction values (IECs) after running single element SIC. The instrument calibration routine must then be performed and confirmed by the ICV/ICB pair and the SIC re-analyzed before proceeding with analysis. Otherwise, the nonconformance issue is raised to the Department Supervisor and/or the QA Department.

9.7.2 Internal Standard

The internal standards are added prior to the nebulizer and corrects for intensity differences in the instrument response between the standard's and sample's matrix. They are monitored for any variation in response during the sample analyses and used to ratio the sample response to the internal standard response of the calibration blank. The ratio is applied to compensate for instrument conditions in the plasma or nebulization caused by the matrix. The internal standard is monitored for 50-150% recovery or laboratory generated control ranges difference from the calibration blank IS response to ensure the proper functioning of the internal standard introduction system and matrix interferences. If an injection falls outside of this acceptance range the sample or QC check is rerun once to check for an introduction error.

If a sample continues to fail it's to be run on successive increasing dilutions until the internal standards associated with the elements of interest are within range. If a QC check fails on the single rerun the analysis is stopped, the root cause investigated, corrected and the instrument re-calibrated/verified. The analysis begins again with all samples that were run after the last acceptable CCV/CCB pair.

9.7.3 LDR Check Solution: A multiple element or single element solution run at a point above the highest calibration standard under the same calibration used to quantify the associated sample data. The LDR check must be within +/-10% of the true value of each element of interest to be considered valid.

9.8 Method Sequence

- Calibration of instrument
- Initial Calibration Verification Standard
- Initial Calibration Blank
- Mixed SIC Solution
- Continuing Calibration Verification Standard
- Continuing Calibration Blank

- 10 samples
- Continuing Calibration Verification Standard
- Continuing Calibration Blank
- 10 Samples
- Continuing Calibration Verification Standard
- Continuing Calibration Blank

10. Procedure

10.1 Equipment Set-up

10.1.1 Sample Preparation

Preliminary treatment of most matrices is necessary because of the complexity and variability of sample matrices. Groundwater samples which have been prefiltered and acidified will not need acid digestion. Samples which are not digested must be matrix matched with the standards.

NOTE: Sample digestates intended for Silver analysis must be analyzed as soon as possible.

10.1.2 Instrument Set-Up

Set up the instrument with proper operating parameters established as detailed below. The instrument must be allowed to become thermally stable before beginning (usually requiring at least 30 minutes of operation prior to calibration).

Startup Procedures

For iCAP Duo 6500

- Turn on power to the chiller
- Click on ThermoSpec Icon; enter analyst initials in login screen
- Click on Plasma icon to start instrument
- Allow to warm up for 30 minutes
- Enter analytical workgroup number (obtained from LIMS) globally under the Instrument menu by selecting Tools, then Options, then Analyst.
- Click on the Sequence tab and enter the sequence by selecting New Autosampler Table, Add Sequence, Add # of spaces.
- Enter the sample locations and IDs
- Press Run Auto-Session button (►) in menu bar.

10.1.2.1 Specific wavelengths are listed in Table 1. Other wavelengths may be substituted if they can provide the needed sensitivity and are corrected for spectral interference. The instrument and operating conditions utilized for determination must be capable of providing data of acceptable quality to the program and data user.

Operating conditions for axial plasma will vary from 1100 – 1500 watts forward power, 15-19 Liters/min argon coolant flow, 0.5 – 0.7 L/min argon nebulizer flow, 140 – 200 rpm pump rate and a default 1 minute preflush time and 10 second measurement time is recommended for all simultaneous instruments.

10.1.2.2 The plasma operating conditions need to be optimized prior to use of the instrument. This routine is not required on a daily basis, but only when first setting up a new instrument or following a change in operating conditions. The following procedure is recommended or follow manufacturer's recommendations. The purpose of plasma optimization is to provide a maximum signal to background ratio for some of the least sensitive elements in the analytical array. The use of a mass flow controller to regulate the nebulizer gas flow or source optimization software greatly facilitates the procedure.

10.1.2.2.1 The Thermo ICP's typically use a Meinhard Nebulizer. The nebulizer flow for each instrument is 1.0 +/- 0.2 mL/min.

10.1.2.2.2 The 6500 Duo instruments automatically perform a wavelength check at start up without user interaction.

10.1.2.2.3 The instrument operating condition finally selected as being optimum must provide the lowest reliable instrument detection limits and method detection limits.

10.1.2.2.4 If either the instrument operating conditions, such as incident power or nebulizer gas flow rate are changed, or a new torch injector tube with a different orifice internal diameter is installed, the plasma and argon pressures must be reoptimized.

10.1.2.2.5 After completing the initial optimization of operating conditions, but before analyzing samples, the laboratory must establish and initially verify an interelement spectral interference correction routine to be used during sample analysis. A general description concerning spectral interference and the analytical requirements for background correction in particular are discussed in the section on interferences. Criteria for determining an interelement spectral interference is an apparent positive or negative concentration for the analyte that falls within ± ½ LLOQ. The upper control limit is the analyte instrument detection limit. Once established, the entire routine is periodically verified every six months. In between that time, IEC's are done on a need be basis per analyte. Only a portion of the correction routine must be verified more frequently or on a daily basis. Initial and periodic verification of the routine must be kept on file. Special cases where continual verification is required are described elsewhere.

10.1.2.3 Sensitivity, instrumental detection limit, precision, linear dynamic range, and interference effects must be established for each individual analyte line on each particular instrument. All measurements must be within the instrument linear range where the correction equations are valid.

10.1.2.3.1 Method detection limits must be established for all wavelengths utilized for each type of matrix commonly analyzed. The matrix used for the MDL calculation must contain analytes of known concentrations within 3-5 times the anticipated detection limit.

10.1.2.3.2 Determination of limits using reagent water MDLs represent a best case situation and do not represent possible matrix effects of real world samples.

10.1.2.3.3 If additional confirmation is desired, reanalyze the seven replicate aliquots on two more non-consecutive days and again calculate the method detection limit values for each day. An average of the three values for each analyte may provide for a more appropriate estimate.

10.1.2.3.4 The upper limit of the linear dynamic range must be established for each wavelength utilized by determining the signal responses with 10% of the true value of each element from a concentration standard at the upper limit of the range run on the same calibration as required by the sample responses above the calibration range. The range which may be used for the analysis of samples must be no more than 90% of the resulting data. Determined analyte concentrations that are above the upper range limit must be diluted and reanalyzed. The analyst must also be aware that if an inter-element correction from an analyte above the linear range exists, a second analyte where the inter-element correction has been applied may be inaccurately reported.

NOTE: Many of the alkali and alkaline earth metals have non-linear response curves due to ionization and self-absorption effects. These curves may be used if the instrument allows; however the effective range must be checked and the second order curve fit must have a correlation coefficient of 0.995 or better. Third order fits are not acceptable. These curves are much more sensitive to changes in operating conditions than the linear lines and must be checked whenever there have been moderate equipment changes.

10.1.2.4 The analyst must (1) verify that the instrument configuration and operating conditions satisfy the analytical requirements and (2) maintain quality control data confirming instrument performance and analytical results.

10.2 Initial Calibration

Calibrate the instrument according to the instrument manufacturer's recommended procedures, using the typical mixed calibration standard solutions described in Section 8.7. Flush the system with the calibration blank (Section 8.8.1) between each standard or as the manufacturer recommends. (Use the average intensity of multiple exposures for both standardization and sample analysis to reduce random error.) The calibration curve consists of a calibration blank, RL standard and a high level standard. Calibration curve verification is accomplished through the analysis of the ICV, ICB and SIC standards.

10.3 Equipment Operation and Sample Processing

10.3.1 For all analytes and determinations, the laboratory must analyze an ICV (Section 8.9), and a calibration blank (ICB, Section 8.8.1), immediately following daily calibration.

A calibration blank (CCB, Section 8.8.1) and a calibration verification standard (CCV, Section 8.9) must be analyzed after every tenth sample and at the end of the sample run. Analysis of the calibration verification (CCV) must verify that the instrument is within 10% of the calibration with the relative standard deviation < 5% from replicate (minimum of three) integrations.

If the calibration cannot be verified within the specified limits, the sample analysis must be discontinued, the cause determined and the instrument recalibrated. All samples following the last acceptable ICV/ICB, or CCV/CCB must be reanalyzed. The analysis

data for the calibration blank, check standard, and ICV or CCV must be kept on file with the sample analysis data.

10.3.2 Rinse the system with the rinse blank solution (Section 8.8.3) before the analysis of each sample. The suggested default rinse time is one minute. Each ICP instrument may establish a reduction in this rinse time through a suitable demonstration.

10.3.3 Dilute and reanalyze samples that exceed the linear range or use a calibrated alternate, less sensitive line for which quality control data is already established.

10.3.4 If less than acceptable accuracy and precision data are generated a series of tests are performed prior to reporting concentration data for analyte elements. At a minimum, these tests should be performed with each batch of samples prepared/analyzed with corresponding unacceptable data quality results. These tests, as outlined in Sections 10.3.5 and 10.3.6, will ensure that neither positive nor negative interferences are operating on any of the analyte elements to distort the accuracy of the reported values.

10.3.5 **Post Digestion Spike Addition:** If the sample concentrations are insufficient to perform a dilution test a post digestion spike added to a portion of a prepared sample, or its dilution for the elements failing the matrix spike recoveries must be run, recovery limits equal to 75% to 125% of the known spike value. If the spike is not recovered within the specified limits If the post-digestion recovery fails to meet the acceptance criteria, the sample results must be reported as estimated values

10.3.6 **Dilution Test:** If the analyte concentration is sufficiently high (minimally, a factor of 25 above the lower limit of quantitation after dilution), an analysis of a 1:5 dilution must agree within ± 20% of the original determination. Elements that fail the dilution test are reported as estimated values.

10.3.7 **CAUTION:** If spectral overlap is suspected, use of computerized compensation, an alternate wavelength, or comparison with an alternate method is recommended.

10.4 Continuing Calibration

10.4.1 Check calibration with an ICV following the initial calibration (Section 8.9). Verify calibration with the Continuing Calibration Verification (CCV) Standard (Section 8.9) at the end of the initial calibration sequence (ICV, ICB), after every ten samples, and at the end of an analytical run. Use a calibration blank (Section 8.8.1) immediately following daily calibration, after every 10 samples and at the end of the analytical run.

10.4.1.1 The results of the ICV are to agree within 10% of the expected value, and CCVs are to agree within 10% of the expected value; if not, terminate the analysis, correct the problem, and recalibrate the instrument. Each may be rerun once to confirm or cure the initial failure.

10.4.1.2 The results of the calibration blank should be below ½ of LLOQ or RL (whichever is lower). If not, repeat the analysis and if the failure is repeated terminate the analysis, correct the problem, recalibrate, and reanalyze the previous 10 samples. If the blank is less than 1/10 the concentration of the action level of interest, and no sample is within ten percent of the action limit, analyses need not be rerun and recalibration need not be performed before continuation of the run.

10.4.2 Verify the inter-element and background correction factors at the beginning of each analytical run. Do this by analyzing the SIC (Section 8.10). Results must be less than +/- LLOQ for all non-spiked elements.

10.4.3 When low-level sensitivity is required, a check standard at the requested limit of quantitation is analyzed to confirm the reported detection limit (RDL). This is performed on a project-by-project basis.

10.5 Preventive Maintenance

Whenever instrument maintenance is performed, it is noted in the instrument's Maintenance Logbook.

10.5.1 Daily

Inspect the nebulizer pump tubing from the Autosampler to the Nebulizer. Replace if necessary.

10.5.2 Monthly or as needed

Remove the torch, "shot glass", nebulizer and spray chamber. Clean each with 10% Nitric Acid and rinse with tap water. Coat the inside of the spray chamber and shot glass with concentrated Sulfuric Acid and soak for one hour, then rinse well with DI water. Soak the torch and nebulizer in aqua regia overnight, then rinse with DI water.

10.5.3 Every 6 months

Preventive Maintenance is performed by the Vendor or in-house personnel as follows:

- check the cooling system
- flush/refill the chiller with distilled water and antibacterial conditioner
- clean the instrument to regain intensity
- clean/replace air filters.

11. Data Evaluation, Calculations and Reporting

11.1 If dilutions were performed, the appropriate factors must be applied to sample values. All results must be reported with up to three significant figures.

11.2 Soil samples

Soil samples are calculated as follows:

$$\mathbf{A} = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

$$\mathbf{B}\ (\text{concentration in mg/Kg}) = \frac{\text{Concentration of analyte (mg/L)}}{\mathbf{A}}$$

11.2.1 Dry weight correction

The LIMS calculates the dry weight correction, however it is calculated as follows:

$$\text{Final concentration in mg/Kg dry weight} = \frac{B}{\%\ \text{Solids}}$$

11.3 Liquid samples

Liquid samples are calculated as follows:

$$\text{Dilution Factor} = \frac{\text{Final Volume (mL)}}{\text{Sample Volume (mL)}}$$

Final concentration in mg/L = Concentration of analyte (mg/L) x Dilution Factor

11.4 Calculations for Hardness

The method for determining hardness is to compute it from the results of separate determinations of Calcium and Magnesium on aqueous samples.

11.4.1 Total Hardness

Total Hardness, mg equivalent $CaCO_3$/L = [2.497 (Ca, mg/L)] + [4.118 (Mg, mg/L)]

11.4.2 Calcium Hardness

Calcium Hardness, mg equivalent $CaCO_3$/L = [2.497 (Ca, mg/L)]

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

Also refer to Section 9 for Quality Control and acceptance criteria.

If the SIC is outside of the recovery window, then the standard is reanalyzed. If the standard failure continues, the IECs for the element/elements in question are reviewed and recalculated if necessary.

Immediate corrective action for a failing CCV/CCB includes reanalyzing the failing standard. If the standard passes the second time then the analysis may be continued. The raw data is noted. If the standard fails again, the problem must be found and corrected and the instrument is recalibrated. The ICV/ICB standard is reanalyzed and all previous data that had failed back to the previous passing CCV/CCB is reanalyzed.

The reanalysis procedure outline above is also conducted for a failing LCS or Method Blank; they may be rerun alone on the new or any subsequent passing bracket. The LCS or Method Blank do not qualify a bracket of samples but the batch run itself.

If the Matrix Spike does not meet acceptance criteria, a dilution test is performed. If the levels of the native sample is inadequate (see section 10.3.6) The RPD must be within 20% of the true value of the native sample. If the dilution test fails or the concentrations in the native sample are inadequate, the post spike is analyzed and evaluated (section 10.3.5). If these criteria are met, then the Matrix Spike data is reported, with the post spike narrated on the final report. If the post spike fails the data is reported as estimated.

If sample Duplicates are outside of the acceptance criteria, the analyst examines the sample for homogeneity. If the sample is not homogenous, this is narrated on the final report. Clean, homogenous samples are reanalyzed and if still outside of the acceptance limits, redigested and reanalyzed.

Sample nonconformance regarding a Matrix Spike recovery or a duplicate %RSD is narrated on the final report along with the corrective action(s) taken.

The mixed element SIC solution is analyzed at least once per day, immediately after the initial calibration. The concentration measured for any target analytes must be less than +/- the LLOQ. If this criterion is not met then sample analysis may not proceed until the problem is corrected, instrument is recalibrated, verified with the ICV/ICB and the SIC is then re-analyzed. Alternatively, the LLOQ may be raised to twice the concentration observed in the SIC solution if approved by the Department Manger or QA Department and the level is below the regulatory action limit or project specific requirements. The only exceptions are those elements that have been demonstrated to be contaminants in the SIC solutions These may be present up to the concentration documented plus the LLOQ. If failure continues notify the Department Supervisor or Manager.

Silver is only slightly soluble in the presence of chloride unless there is a sufficient chloride concentration to form the soluble chloride complex. Therefore, low recoveries of silver may occur in samples, matrix spikes and even laboratory control samples.

Silver is flagged in our data software during analysis if the concentration of silver is >100ug/L. Liquid samples that exceed 100ug/L will be redigested at dilution. Soil and solid samples that exceed 500ug/L (approximately 20mg/kg) will be re-digested at a reduced weight of 0.625g to allow more silver to become soluble during digestion.

13. Method Performance

13.1 Method Detection Limit Study (MDL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

The laboratory follows the procedure to determine the MDL, LOD, and/or LOQ as outlined in Alpha SOP/08-05 unless supersede within this SOP. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

Refer to Alpha SOP/08-12 for further information regarding IDC/DOC Generation.

13.2.1 Initial (IDC)

The analyst must make an initial, one-time, demonstration of the ability to generate acceptable accuracy and precision with this method, prior to the processing of any samples.

13.2.2 Continuing (DOC)

The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

Refer to Alpha's Chemical Hygiene Plan and Waste Management and Disposal SOP for further pollution prevention and waste management information.

15. Referenced Documents

Chemical Hygiene Plan

SOP #1732 MDL/LOD/LOQ Generation

SOP# 1739 IDC/DOC Generation

SOP# 1728 Waste Management and Disposal

16. Attachments

TABLE 1: Element Wavelengths

TABLE 2: Precision and Accuracy Acceptance Criteria

TABLE 3: Reporting Limits

TABLE 4: LCS and Matrix Spike Concentrations

TABLE 1
ELEMENT WAVELENGTHS

Element	6500 Duo wavelength (nm)
Pb	220.3
Se	196.0
Sb	206.8
As	189.0
Ba	455.4
Be	313.0
Cd	214.4
Co	228.6
Cu	324.7
Cr	267.7
Fe	259.9
Mn	257.6
Mo	202.0
Ni	231.6
Ag	328.0
Tl	190.8
V	292.4
Zn	206.2
Al	396.1
Ca	315.8
Mg	279.0
B	208.9
Si	212.9
Sn	189.9
Sr	421.5
Ti	334.9
Bi	223.0
Na	589.5
K	766.4
S	180.7
Li	

TABLE 2
PRECISION AND ACCURACY ACCEPTANCE CRITERIA

	% Recovery LCS		Aqueous % Recovery MS		Soil % Recovery SRM *		Duplicate	
Element	**Lower Control Limit**	**Upper Control Limit**	**Lower Control Limit**	**Upper Control Limit**	**Lower Control Limit**	**Upper Control Limit**	**Aqueous %RPD**	**Soil %RPD**
Aluminum	80	120	75	125	29	171	20	20
Antimony	80	120	75	125	4	196	20	20
Arsenic	80	120	75	125	81	119	20	20
Barium	80	120	75	125	83	118	20	20
Beryllium	80	120	75	125	83	117	20	20
Boron	80	120	75	125	70	129	20	20
Cadmium	80	120	75	125	82	117	20	20
Calcium	80	120	75	125	83	117	20	20
Chromium	80	120	75	125	80	119	20	20
Cobalt	80	120	75	125	83	117	20	20
Copper	80	120	75	125	83	117	20	20
Iron	80	120	75	125	51	150	20	20
Lead	80	120	75	125	80	120	20	20
Lithium	80	120	75	125	80	120	20	20
Magnesium	80	120	75	125	74	126	20	20
Manganese	80	120	75	125	83	117	20	20
Molybdenum	80	120	75	125	81	119	20	20
Nickel	80	120	75	125	82	117	20	20
Potassium	80	120	75	125	74	126	20	20
Sulfur	80	120	75	125	NA	NA	20	20
Selenium	80	120	75	125	80	120	20	20
Silica (SiO_2)	80	120	75	125	NA	NA	20	20
Silver	80	120	75	125	66	134	20	20
Sodium	80	120	75	125	74	127	20	20
Strontium	80	120	75	125	80	120	20	20
Thallium	80	120	75	125	79	120	20	20
Tin	80	120	75	125	69	131	20	20
Titanium	80	120	75	125	82	118	20	20
Vanadium	80	120	75	125	79	121	20	20
Zinc	80	120	75	125	82	119	20	20

** Ranges of the SRM are presented as an example of a typical SRM; actual limits may vary by lot provided by the vendor.

TABLE 3
REPORTING LIMITS

Element	Aqueous (mg/L)	Soil (mg/Kg)
ALUMINUM	0.10	4.0
ANTIMONY	0.05	2.0
ARSENIC	0.005	0.40
BARIUM	0.01	0.40
BERYLLIUM	0.005	0.20
BORON	0.03	1.2
CADMIUM	0.005	0.40
CALCIUM	0.10	4.0
CHROMIUM	0.01	0.40
COBALT	0.02	0.80
COPPER	0.01	0.40
IRON	0.05	2.0
LEAD	0.01	2.0
LITHIUM	0.009	0.36
MAGNESIUM	0.10	4.0
MANGANESE	0.01	0.40
MOLYBDENUM	0.05	2.0
NICKEL	0.025	1.0
POTASSIUM	2.5	100
SULFUR	0.25	10
SELENIUM	0.01	0.80
SILICA	0.50	20
SILVER	0.007	0.40
SODIUM	2.0	80
STRONTIUM	0.01	2.0
THALLIUM	0.02	0.80
TIN	0.05	4.0
TITANIUM	0.01	0.40
VANADIUM	0.01	0.40
ZINC	0.05	2.0

TABLE 4
LCS and Matrix Spike

Analyte	Liquid Concentration (mg/L)	Soil Concentration * (MS spike only) (mg/Kg)
Antimony	0.5	160
Arsenic	0.12	160
Barium	2.00	160
Beryllium	0.05	80
Cadmium	0.051	80
Chromium	0.20	160
Copper	0.25	160
Lead	0.51	160
Nickel	0.50	160
Selenium	0.12	160
Silver	0.05	40
Thallium	0.12	160
Zinc	0.50	160
Iron	1.00	800
Manganese	0.50	160
Calcium	10.0	800
Magnesium	10.0	800
Potassium	10.0	800
Sodium	10.0	800
Silica	1.0	800
Aluminum	2.00	800
Cobalt	0.50	160
Vanadium	0.50	160
Boron	1.0	NA
Molybdenum	1.0	NA
Lithium	1.0	800
Titanium	1.0	NA

*MS spike of a solid based on 1.25g and a final volume of 50 mL.

Note: Solids LCS is an SRM with certified value provided by the vendor on a lot basis.

Organochlorine Pesticides
By Capillary Column Gas Chromatography

Reference Method No.: **Method 8081B**

References: SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Update IV, 2007.

Mass DEP CAM QC Requirements and Performance Standards for the Analysis of Chlorinated Pesticides by Gas Chromatography (GC), Revision 1, July 1, 2010.

SW-846 Pesticides by 8081, State of Connecticut Department of Environmental Protection Reasonable Confidence Protocol (RCP), Version 1.0, July 2005

1. Scope and Application

Method 8081B is used to determine the concentrations of various organochlorine pesticides in extracts from solid and liquid matrices. This SOP details the analysis for these compounds using fused-silica, open-tubular, capillary columns with electron capture detectors (ECD).

Matrices: Extracts from solid and liquid matrices.

Definitions: See Alpha Analytical Quality Manual

Regulatory Parameter List: The compounds listed below are determined by this method:

Parameter	CAS
Aldrin	309-00-2
Alpha-BHC	319-84-6
Beta-BHC	319-85-7
Gamma-BHC (Lindane)	58-89-9
Delta-BHC	319-86-8
Alpha-chlordane	5103-71-9
Gamma-chlordane	5103-74-2
4,4'-DDD	72-54-8
4,4'-DDE	72-55-9
4,4'-DDT	50-29-3
Dieldrin	60-57-1
Endosulfan I	959-98-8
Endosulfan II	33213-65-9
Endosulfan Sulfate	1031-07-8
Endrin	72-20-8
Endrin Aldehyde	7421-93-4
Endrin Ketone	53494-70-5
Heptachlor	76-44-8
Heptachlor Epoxide	1024-57-3
Methoxychlor	72-43-5
Toxaphene	8001-35-2
Chlordane	57-74-9
Alachlor [+]	15972-60-8
Hexachlorobenzene [++]	118-74-1

[+] CT-RCP only compound [++] MCP only compound

The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one of the following laboratory personnel before performing the modification: Area Supervisor, Laboratory Services Manager, Laboratory Director, or Quality Assurance Officer

This method is restricted to use by or under the supervision of analysts experienced in the operation of the gas chromatograph (GC) and in the interpretation of gas chromatograms. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability (see section 13), analyzing a proficiency test sample and completing the record of training.

After initial demonstration, ongoing demonstration is based on acceptable laboratory performance of at least a quarterly laboratory control sample or acceptable performance from an annual proficiency test sample. A major modification to this procedure requires demonstration of performance. The identification of major method modification requiring performance demonstration is directed by the QA Officer and/or Laboratory Director on a case-by-case basis.

2. Summary of Method

A measured volume or weight of sample (for liquids, 500 mls or 1L, for solids, 15g to 30g) is extracted using the appropriate matrix-specific sample extraction technique.

Liquid samples are extracted at neutral pH with methylene chloride using Method 3510C (separatory funnel), or other appropriate technique.

Solid samples are extracted with methylene chloride: acetone (1:1) using Method 3540C (Soxhlet), Method 3546 (microwave extraction), or other appropriate technique.

Wipe samples are extracted with methylene chloride: acetone (1:1) using Method 3540C (Soxhlet) or other appropriate technique.

Oil samples are diluted with hexane following the procedure outlined in the extraction SOP.

After cleanup, the extract is analyzed by injecting a 1µL sample into a gas chromatograph equipped with narrow- or wide-bore fused silica capillary columns and electron capture (GC/ECD) detectors.

2.1 Method Modifications from Reference

None.

3. Reporting Limits

Table 1 lists our routine reporting limits.

4. Interferences

4.1 Only high purity gases are used in the GC system to eliminate this source of possible contamination. Both the hydrogen (carrier gas – 99.999%) and argon-methane (detector make-up gas) are certified by the gas supplier.

4.2 Preventive instrument maintenance is performed routinely, and whenever highly contaminated extracts are analyzed that could result in chromatographic interferences or result in degradation of system performance. Section 9.5 details the maintenance steps.

4.3 Glassware must be scrupulously cleaned. This procedure is detailed in the extraction SOPs. Store dry glassware in a clean environment.

4.4 All solvents used are pesticide grade or equivalent, and reagents are purchased as certified contaminant free. All of these materials are routinely determined to be free of interferences by analysis of extraction blanks with every extraction batch performed.

4.5 Certain compounds (i.e. phthalates) can be extracted from the sample matrix and be detected by the ECD that could possibly result in false positive results or complicate the data interpretation. The use of the cleanup procedures detailed in the extraction SOPs minimize these possible interferences. Analyst experience is also crucial in making compound determinations.

4.6 Interferences co-extracted from the samples will vary considerably from waste to waste. While general cleanup techniques are referenced or provided as part of the method, unique samples may require additional cleanup approaches to achieve desired degrees of discrimination and quantitation.

4.7 Interferences by phthalate esters introduced during sample preparation can pose a major problem in pesticide determinations.

4.7.1 Common flexible plastics contain varying amounts of phthalate esters which are easily extracted or leached from such materials during laboratory operations.

4.7.2 Cross-contamination of clean glassware routinely occurs when plastics are handled during extraction steps, especially when solvent-wetted surfaces are handled.

4.7.3 Interferences from phthalate esters are minimized by avoiding contact with any plastic materials and checking all solvents and reagents for phthalate contamination.

4.8 The presence of elemental sulfur will result in broad peaks that interfere with the detection of early-eluting organochlorine pesticides. Sulfur contamination is often seen in sediment and some soil samples.

4.9 Other halogenated pesticides or industrial chemicals may interfere with the analysis of pesticides. Coeluting chlorophenols are eliminated by using Method 3620B (florisil).

5. Health and Safety

The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material data handling sheets is available to all personnel involved in the chemical analysis. The following analytes covered by this method have been tentatively classified as known or suspected human or mammalian carcinogens: 4,4'-DDT, 4,4'-DDD, and BHCs. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

5.1 Lab coats, safety glasses, and gloves must be worn when handling samples, extracts, standards or solvents.

5.2 All solvent and extract transfers must be handled in the vented bench area in the GC laboratory.

5.3 All stock standards, working standards, and vialed sample extracts must be placed into the waste bucket in the lab, for future disposal by the Hazardous Waste Manager. The container must be labeled properly with hazard warning labels indicating the container contents.

5.4 Bottles containing flammable solvents must be stored in the flammables cabinet.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection

Aqueous samples are collected in either two 500 ml amber glass jars or two 1L amber glass jars with teflon-lined lids. Solid samples are collected in one 250 mL wide-mouth glass jar with a teflon-lined lid. All containers are purchased pre-cleaned and certified from commercial vendors.

6.2 Sample Preservation

Both aqueous and solid samples are then preserved by packing in coolers with ice or ice packs, to maintain a temperature of 4 ± 2° C. Upon receipt at the laboratory, the samples are transferred into sample storage refrigerators to maintain at a temperature of 4 ± 2° C.

6.3 Sample Shipping

No special shipping requirements.

6.4 Sample Handling

Aqueous samples must be extracted within 7 days of sample collection, solid samples within 14 days of collection. Once extracted, the samples must be analyzed within 40 days of the extraction date.

7. Equipment and Supplies

7.1 Gas Chromatograph, Hewlett Packard 6890 (or equivalent): An analytical system complete with gas chromatograph configured for split-splitless injection and all required accessories including syringes, analytical columns, gases, electron capture detectors (ECD), and data system.

7.1.1 Data System: A computer system is interfaced to the GC for collection of data. Data acquisition is performed using Agilent Technologies GC ChemStation (Rev. A.10.02 [1757]).

7.2 GC Columns: Alpha utilizes dual-column analyses. The dual-column approach involves either a single injection that is split between two columns that are mounted in a single gas chromatograph, or dual injections of the split extract on a single GC equipped with two columns. Typical column pairs used are listed below. Other columns may be used as long as method performance criteria can be met.

7.2.1 Column pair 1

30m x 0.32mm ID fused silica capillary column (RTX-clpesticide), 0.32µm film thickness.

30m x 0.32mm ID fused silica capillary column (RTX-clpesticideII) 0.25µm film thickness.

7.2.2 Column pair 2

30m x 0.32mm ID fused silica capillary column (STX-clpesticide), 0.32µm film thickness.

30m x 0.32mm ID fused silica capillary column (STX-clpesticideII) 0.25µm film thickness.

7.3 Volumetric Flasks: 10mL, 25mL, 50mL, 100mL, 200mL, and 2000mL, for the preparation of standards.

7.4 Microsyringes/Wiretrol syringes: 10 µL – 1000 µL

7.5 Disposable Borosilicate Pipets

7.6 Vials: 2 mL clear glass, crimp-top and screw-cap.

8. Reagents and Standards

Reagent grade or pesticide grade chemicals are used in all tests. Unless otherwise indicated, it is intended that all reagents shall conform to specifications of the Committee on Analytical Reagents of the American Chemical Society, where such specifications are available. Other grades may be used, provided it is first ascertained that the reagent is of sufficient high purity to permit its use without lessening the accuracy of the determination.

NOTE: Store the standard solutions (stock, composite, calibration, internal, and surrogate) at 4 ± 2°C in Teflon(R)-sealed containers in the dark. When a lot of standards is prepared, aliquots of that lot are stored in individual small vials. All stock standard solutions must be replaced after one year or sooner if routine QC tests indicate a problem. All other standard solutions must be replaced after six months or sooner if routine QC indicates a problem.

8.1 n-Hexane: Pesticide quality or equivalent.

8.2 Acetone: Pesticide quality or equivalent.

8.3 Methylene chloride: Pesticide quality or equivalent.

8.4 Organic-free Reagent Water: All references to water in this method refer to organic-free reagent water from Alpha's RO water treatment system.

8.5 Stock Standard Solutions: All stock standard solutions are purchased from commercial vendors as ampulated certified solutions. When an ampulated stock solution is opened, it is transferred to a labeled amber screw-cap vial. The expiration date of the stock solution is either the vendor specified expiration date, or 1 year from the date the ampule was opened, whichever is sooner. Typical stock standard concentrations are listed in Table 2.

8.6 Calibration Standards: Calibration standards are prepared volumetrically by diluting the appropriate stock standard(s) with hexane. Calibration standards expire 6 months from the date of preparation, or on the earliest expiration date of any of the stock solutions used to prepare the calibration standard. Calibrations are performed at 10 concentration levels for individual pesticides, Chlordane and Toxaphene; concentrations for all levels are listed in Table 2. Below are suggested procedures for preparation of individual pesticides (Sec. 8.6.1), Chlordane (Sec. 8.6.2), and Toxaphene (Sec. 8.6.3) initial calibration standards.

8.6.1 Preparation of individual pesticides initial calibration standards;

(syringes needed: *100µL [A], 500µL [B], 1000µL [C]*)
(solvent: *Hexane)*
(glassware: *9x10mL, 2x25mL, 1x50mL, 2x100mL, volumetric flasks*)

ICAL (Initial Calibration) STOCK #1: *2000µg/L; 25mL*
50µL[A] of AccuStandard M-8081-SC (Pesticides mix; 1000µg/mL)
250µL[B] of AccuStandard CLP-032-R (TCMX, Deca; 200µg/mL)
500µL[B] of AccuStandard P-102S (Alachlor; 100µg/mL)
500µL[B] of AccuStandard APP-9-112 (Hexachlorobenzene; 100µg/mL)

ICAL STOCK #2 (=LEVEL 10)**:** *200µg/L; 25mL.*
2500µL[B] of STOCK #1
…..

LEVEL 1, 0.5 µg/L:	25µL[A] of ICAL STOCK #2, 10mL
LEVEL 2, 1.0 µg/L:	50µL[A] of ICAL STOCK #2, 10mL
LEVEL 3, 2.0 µg/L:	100µL[A] of ICAL STOCK #2, 10mL
LEVEL 4, 3.0 µg/L:	150µL[B] of ICAL STOCK #2, 10mL
LEVEL 5, 4.0 µg/L:	200µL[B] of ICAL STOCK #2, 10mL
LEVEL 6, 5.0 µg/L:	250µL[B] of ICAL STOCK #2, 10mL
LEVEL 7, 10 µg/L:	500µL[B] of ICAL STOCK #2, 10mL
LEVEL 8, 50 µg/L:	2500µL[C] of ICAL STOCK #2, 10mL
LEVEL 9, 100 µg/L:	5000µL[C] of ICAL STOCK #2, 10mL
LEVEL 10, 200 µg/L:	2500µL[C] of ICAL STOCK #1, 25mL
LEVEL 11, 400 µg/L:	2000µL[C] of ICAL STOCK #1, 10mL

ICV (Initial Calibration Verification) STOCK #1: *2000µg/L; 100mL*
1000µL[C] of Restek 579104 (Custom Pesticides Mix; 200µg/mL)

ICV STOCK #2: *1000µg/L; 50mL*
250µL[B] of Agilent ISM-320-1 (TCMX, Deca; 200µg/mL)
…..

ICV, 50 µg/L:	2500µL[C] of ICV STOCK #1 with 5000µL[C] of ICV STOCK #2, 100mL

8.6.2 Preparation of Chlordane initial calibration standards;

(syringes needed: *100µL [A], 500µL [B], 1000µL [C]*)
(solvent: *Hexane)*
(glassware: *11x10mL, 1x25mL, 1x50mL, volumetric flasks*)

ICAL STOCK #1: *50µg/mL (Chlordane);10mL*
100µL[A] of Agilent EPA-1086-1 (Chlordane Standard; 5000µg/mL)

ICAL STOCK #2 (=LEVEL 9)**:** *2000µg/L; 25mL.*
1000µL[C] of STOCK #1

LEVEL 1, 2µg/L:	10µL[A] of ICAL STOCK #2, 10mL
LEVEL 2, 5µg/L:	25µL[A] of ICAL STOCK #2, 10mL
LEVEL 3, 10µg/L:	50µL[A] of ICAL STOCK #2, 10mL
LEVEL 4, 20µg/L:	100µL[A] of ICAL STOCK #2, 10mL
LEVEL 5, 100µg/L:	500µL[B] of ICAL STOCK #2, 10mL
LEVEL 6, 250µg/L:	1250µL[B] of ICAL STOCK #2, 10mL
LEVEL 7, 500µg/L:	2500µL[C] of ICAL STOCK #2, 10mL
LEVEL 8, 1000µg/L:	5000µL[C] of ICAL STOCK #2, 10mL
LEVEL 9, 2000µg/L:	1000µL[C] of ICAL STOCK #1, 25mL
LEVEL 10, 5000µg/L:	1000µL[C] of ICAL STOCK #1, 10mL

ICV STOCK: *50µg/mL; 10mL*
500µL[B] of Restek 32021 (Chlordane Standard; 1000µg/mL)
…..
ICV, 1000µg/L: 1000µL[C] of ICV STOCK, 50mL

8.6.3 Preparation of Toxaphene initial calibration standards;

(syringes needed: *100µL [A], 500µL [B], 1000µL [C]*)
(solvent: *Hexane)*
(glassware: *11x10mL, 1x50mL, volumetric flasks*)

ICAL STOCK #1: *100µg/mL (Toxaphene);10mL*
1000µL[C] of Absolute Standards 20021 (Toxaphene; 1000µg/mL)

ICAL STOCK #2 (=LEVEL 8)**:** *2000µg/L; 10mL.*
200µL[A] of STOCK #1

LEVEL 1, 5 µg/L:	25µL[A] of ICAL STOCK #2, 10mL
LEVEL 2, 10 µg/L:	50µL[A] of ICAL STOCK #2, 10mL
LEVEL 3, 20 µg/L:	100µL[A] of ICAL STOCK #2, 10mL
LEVEL 4, 100 µg/L:	500µL[B] of ICAL STOCK #2, 10mL
LEVEL 5, 200 µg/L:	1000µL[C] of ICAL STOCK #2, 10mL
LEVEL 6, 500 µg/L:	50µL[A] of ICAL STOCK #1, 10mL
LEVEL 7, 1000 µg/L:	100µL[A] of ICAL STOCK #1, 10mL
LEVEL 8, 2000 µg/L:	200µL[B] of ICAL STOCK #1, 10mL
LEVEL 9, 5000 µg/L:	500µL[B] of ICAL STOCK #1, 10mL
LEVEL 10, 10000 µg/L:	1000µL[C] of ICAL STOCK #1, 10mL

ICV: *2000μg/L; 50mL*
1000μL[C] of Agilent PP-271-1 (Toxaphene Standard; 100μg/mL)

8.7 Internal Standard Solution: 1-Bromo-2-nitrobenzene is used as the internal standard and is added to all single-component calibration standards and sample extracts to achieve a concentration of 0.25 µg/mL. Standard solution expires 6 months after the date of preparation. Below are suggested procedures for preparation of PCB Internal Standard which is diluted to prepare Pesticides Internal Standard.

8.7.1 Preparation of Internal Standard solution:

(syringe needed: *1000μL [A]*)
(solvent: *Hexane)*
(glassware: *2x200mL, volumetric flasks*)

PCB INTERNAL STANDARD: *25μg/mL; 200mL*
1000μL[A] of Agilent PPS-351-1 (1-Bromo-2-nitrobenzene Standard; 5000μg/mL)

PESTICIDES INTERNAL STANDARD: *2.5μg/mL; 200mL*
20mL[A] of PCB INTERNAL STANDARD

8.8 Surrogate Standards: Tetrachloro-m-xylene and decachlorobiphenyl are used as surrogates. They are added to the calibration standards at the concentrations listed in Table 2, and are spiked into all samples and QC samples prior to extraction. The spiking solution is prepared in acetone at the concentrations listed in Table 2. Standard expires 6 months after the date of preparation. Below are suggested procedures for preparation of surrogate standard.

8.8.1 Preparation of surrogate standard:

(syringe needed: *1000μL [A]*)
(solvent: *Acetone)*
(glassware: *1x2000mL, volumetric flasks*)

SURROGATES: *2000μg/L; 2000mL*
20mL[A] of AccuStandard CLP-032-R (Deca. & TCMX; 0.2mg/mL)

8.9 LCS/MS Spiking Solutions: The LCS/MS spiking solutions are prepared volumetrically by diluting the appropriate stock standards in acetone. The spiking solution concentrations are listed in Table 2. Spiking solution expires 6 months after the date of preparation. Below are suggested procedures for preparation of individual pesticides, Chlordane, and Toxaphene spiking solutions.

8.9.1 Preparation of spiking solutions:

(syringes needed: *250μL [A], 1000μL [B]*)
(solvent: *Acetone)*
(glassware: *1x25mL, 1x50mL, 1x200mL, volumetric flasks*)

INDIVIDUAL PESTICIDES SPIKE: *2000μg/L; 200mL*
2000μL[B] of Restek 579104 (Custom Pesticides Mix; 200μg/mL)

CHLORDANE SPIKE: *25μg/mL; 50mL*
250μL[A] of Agilent EPA-1086-1 (Chlordane Standard; 5000μg/mL)

TOXAPHENE SPIKE: *25μg/mL; 25mL*
625μL[A] of Absolute Standards 20021 (Toxaphene; 1000μg/mL)

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 Blank(s)

Extraction blanks are performed with each extraction batch of 20 or less samples, according to the extraction SOPs. The extraction blank must not contain any of the reportable analytes above the reporting limit. If any reportable analytes are detected in the blank, the entire extraction batch is suspect and re-extraction of all associated samples is required. Actions associated with blank failures are listed in Table 5.

9.2 Laboratory Control Sample (LCS)

A Laboratory Control Sample (LCS) is extracted with each analytical batch. The LCS consists of an aliquot of a clean (control) matrix similar to the sample matrix and of the same weight or volume. The LCS is spiked with the single component pesticide analytes. The concentration of the spiking solution is listed in Table 2. The recovery acceptance criteria are listed in Table 3. If any recovery criteria are not met, the extract should be reanalyzed. If the criteria are still not met, the entire batch should be re-extracted. If this is not possible, due to insufficient sample or holding time exceedance, the analyst must write up the failure on a narrative sheet for inclusion in the client report. Actions associated with LCS/LCSD failures are listed in Table 5.

9.2.1 LCS Duplicate (LCSD)

A Laboratory Control Sample Duplicate is extracted with each analytical batch. The LCSD consists of an aliquot of a clean (control) matrix similar to the sample matrix and of the same weight or volume. The LCSD is spiked with the single component pesticide analytes. The concentration of the spiking solution is listed in Table 2. The recovery acceptance criteria is listed in Table 3. If Recovery limits are outside acceptance criteria, the non-conformance is narrated.

9.2.2 Connecticut RCP/MCP/NJ LCS Requirements

For CT- Reasonable Confidence Protocol (RCP) 8081B samples, Massachusetts Contingency Plan (MCP) samples, and samples with a state of origin of New Jersey, the LCS recovery criteria is 40 – 140%. MCP allows for up to 10% of reported spike compounds to fail in the LCS/LCSD and still report.

9.3 Initial Calibration Verification (ICV)

Refer to Section 10.2.

9.4 Continuing Calibration Verification (CCV)

Refer to Section 10.4

9.5 Matrix Spike

A matrix spike (MS)/matrix spike duplicate (MSD) is extracted and analyzed upon Client request for each batch of 20 or less samples. MS and MSDs are field samples spiked with a known quantity of the target analyte(s). They are prepared by taking additional sample aliquots of the same weight or volume and adding the appropriate amounts of surrogate and spiking solutions. The spike compounds and levels are listed in Table 2. The recovery acceptance criteria are 30-150%. If the recovery criteria are not met, but are met in the LCS, the failure may be attributed to sample matrix effects. Actions associated with MS/MSD failures are listed in Table 5.

9.6 Laboratory Duplicate (DUP)

A duplicate sample is extracted and analyzed upon Client request for each batch of 20 or less samples. Duplicates are laboratory selected replicate samples, prepared by taking an additional sample aliquot of the same weight or volume of a sample. The % RPD criteria are listed in Table 3. If the %RPD is not met, the failure may be attributed to sample matrix effects. Actions associated with duplicate failures are listed in Table 5.

For samples with a state of origin of New Jersey, a MS and MSD/DUP must be extracted for every twenty samples within a 24hr period.

9.7 Method-specific Quality Control Samples

9.7.1 Surrogates

All extracted samples and associated QC are spiked with surrogates at the levels listed in Table 2. The laboratory must evaluate surrogate recovery data from individual samples and QC samples versus the surrogate control limits listed in Table 3. If the surrogate limits are not met, the extract should be reanalyzed to determine if the failure was due to an instrument problem. If the criteria are still not met, the affected samples should be re-extracted to confirm that the failure was due to sample matrix. If matrix effect is confirmed, this must be noted on a narrative sheet for inclusion in the client report.

9.8 Method Sequence

Initial calibration:

1. Instrument Blank (may be omitted to conserve tray space)
2. Degradation check standard
3. Std Level 1
4. Std Level 2
5. Std Level 3
6. Std Level 4
7. Std Level 5
8. Std Level 6
9. Std Level 7
10. Std Level 8
11. Std Level 9
12. Std Level 10
13. Std Level 11 (Individual Pesticides only)
14. Initial Calibration Verification Standard (ICV)
15. Repeat std Levels 1 –10 for other mixes until curve is complete.

    [**NOTE:** If multiple calibration mixtures are analyzed, it is acceptable to analyze appropriate ICVs after all calibration standards have been injected.]

Typical Daily sequence:

1. Degradation Check Standard
2. Pesticide Continuing Calibration Standard
3. Chlordane Continuing Calibration Standard
4. Toxaphene Continuing Calibration Standard
5. Extraction Blank
6. Laboratory Control Sample
7. Laboratory Control Sample Duplicate
8. Matrix Spike (Upon Client Request)
9. Duplicate/Matrix Spike Duplicate (Upon Client Request)
10. Samples (up to 20 may be analyzed)
11. Cal check
12. Repeat 1 – 10 (as needed)

10. Procedure

10.1 Equipment Set-up

10.1.1 Sample Extraction

Water samples are extracted at a neutral pH with methylene chloride using a separatory funnel (Method 3510C). See extraction SOP for details.

Solid samples are extracted with methylene chloride: acetone (1:1) using Soxhlet extraction (Method 3540C) or microwave extraction (Method 3546). See extraction SOP for details.

10.1.2 Extract Cleanup

Cleanup procedures may not be necessary for a relatively clean sample matrix, but most extracts from environmental and waste samples will require additional preparation before analysis. The specific cleanup procedure used will depend on the nature of the sample to be analyzed and the data quality objectives for the measurements. See extraction SOPs for details.

10.1.3 GC Conditions:

The dual-column / dual-detector approach involves the use of the columns listed in section 7.2. The columns are connected to an injection tee or dual injection GC, and separate electron capture detectors. Typical GC conditions for the HP 6890 instruments are listed below, but may be altered as long as method performance criteria are met.

Temperature 1:	120 °C
Time 1:	0 minute
Ramp 1:	45 °C/minute
Temperature 2	200 °C
Time 2:	0 minutes
Ramp 2:	15 ° C/minute
Temperature 3:	230 °C
Time 3:	0 minutes
Injector temperature:	250 °C
Ramp 3:	30 °C/minute
Final Temperature:	330 °C
Final Time:	2.0 minutes

Injector mode:	Pulsed Split
	4:1 split
Injector Flow:	20 mL/min split flow
Detector temperature:	350 °C
Carrier gas:	Hydrogen
Carrier flow:	28 mL/min
Carrier mode:	Constant flow
Makeup gas:	Nitrogen
Total detector flow:	60 mL/min
Injection volume:	1 µL

10.1.4 DDT and Endrin Breakdown

The breakdown of DDT and Endrin must be measured before samples are analyzed and at the beginning of each 12-hour shift. Injector maintenance must be completed if the breakdown in greater than 15% for either compound (See Section 10.5.1). Both analytical columns must pass DDT/Endrin breakdown criteria prior to sample analysis.

10.2 Initial Calibration

10.2.1 Prepare calibration standards using the procedures in Section 8.6 and the concentrations listed in Table 2. The calibration standards are aliquoted into autosampler vials and capped prior to loading onto the autosampler tray.

10.2.2 Establish the GC operating conditions by loading the appropriate GC method. Typical instrument conditions are listed in section 10.1.3. The same operating conditions are used for calibrations and sample analyses. Create the analytical sequence using the Turbochrom or Agilent Chemstation data acquisition software.

10.2.2.1 Record the calibration standard, unique lab identifier code (lot), the analytical sequence list.

10.2.3 A 1µL injection volume of each calibration standard is typically used. Other injection volumes may be employed, provided that the analyst can demonstrate adequate sensitivity for the compounds of interest. The same injection volume must be used for all standards and samples.

10.2.4 Because of the low concentration of pesticide standards injected on a GC/ECD, column adsorption may be a problem when the GC has not been used for a day or more or after system maintenance. The GC column may be primed (or deactivated) by injecting a pesticide standard mixture approximately 20 times more concentrated than the mid-concentration standard. Inject this standard mixture prior to beginning the initial calibration or calibration verification.

Alternately, the system may be primed by baking at the final analytical temperature for approximately 30 minutes.

Several analytes may be observed in the injection just following system priming. Always run an instrument blank after system priming.

10.2.5 Calibration Factors

Internal standard calibration techniques are employed in this method.

10.2.5.1 Internal Standard Procedure. In each standard, calculate the response factor (RF) for each analyte, the average RF, and the relative standard deviation (RSD) of the RFs, using the Enviroquant data processing software. The calculations are performed automatically, using the formulae listed in Alpha's Quality Manual.

10.2.6 Initial Calibration Criteria

If the RSD for an analyte is $\leq$ 20%, then the response of the instrument for this compound is considered linear over the range and the mean calibration factor can be used to quantitate sample results.

If the RSD for any analyte is > 20%, then linearity through the origin cannot be assumed. The mean response factor cannot be used for quantitation. An alternative calculation may be done by the use of linearity as long as the correlation coefficient is $\geq$0.995. If both of these quantitation methods fail criteria for any compound in the initial calibration, then the system must be reevaluated and a new calibration curve must be analyzed.

If samples are to be analyzed per the Massachusetts Contingency Plan (MCP) Method, averaged, linear or non-linear regression may be used. When a linear calibration is used,

the required calibration coefficient needs to be > 0.99. In addition, when using linear or non-linear regression, the low standard must be processed against the curve and fall within 70-130% of the curve.

Percent Relative Error (%RE): For linear and quadratic fit compounds, the %RE must be calculated for the standard at or near the midpoint and at the lowest level of the initial calibration. The %RE between the calculated and expected concentration of an analyte must be ≤ 30%, otherwise recalibration is necessary.

10.2.7 Retention Time Windows

10.2.7.1 The retention time windows used for the identification of target analytes are calculated using the procedure recommended in Method 8000 and were found to be ± 0.015 minutes.

10.2.7.2 The windows listed above are used as guidance; however the experience of the analyst weighs heavily in the interpretation of the chromatograms. For example, it has been observed that certain oil matrices can cause the retention times to shift more dramatically. Additionally, if any positive results are questionable and at sufficiently high concentration, GC/MS analysis is used for confirmation.

10.2.8 Initial Calibration Verification

An initial calibration verification standard must be run immediately after each initial calibration, near the midpoint of the curve. This standard must be prepared using a second source that is different than the source used for the initial calibration. The %D for each analyte to be quantitated must not exceed a ± 20% difference when compared to the initial calibration curve.

10.2.8.1 CT-RCP requires that %D for each analyte to be quantitated must not exceed a ± 15% difference when compared to the initial calibration curve.

10.3 Equipment Operation and Sample Processing

10.3.1 The same GC operating conditions used for the initial calibration must be employed for sample analyses, including sample injection volume (Section 10.1.3).

10.3.2 Tentative identification of an analyte occurs when a peak from a sample extract falls within the retention time window for the compound. Each tentative identification is confirmed using a second GC column of dissimilar stationary phase. Confirmation is positive when the %RPD is ≤ 40% from the results of the two columns. In particularly difficult matrices, confirmation by GC/MS may be advisable (see Section 10.3.11).

10.3.3 The concentration reported for an identified target analyte in an extract is calculated using the Enviroquant data processing software. The Enviroquant methods have been configured to utilize the quantitation formulas found in Alpha's Quality Manual. Proper quantitation requires the appropriate selection of a baseline from which the peak area or height can be determined. See the Manual Integration SOP for integration guidelines.

10.3.3.1 If the responses exceed the calibration range of the system, dilute the extract and reanalyze.

10.3.4 Each sample analysis must begin with an acceptable initial calibration, calibration verification standard(s) (each 12-hour analytical shift), or calibration standards

interspersed within the samples. The Internal Standard area of the samples must be within 50%-200% of the starting CCV. When a calibration verification standard fails to meet the QC criteria, all samples that were injected after the last standard that last met the QC criteria must be re-injected.

10.3.4.1 CT-RCP requires a closing calibration verification standard with a %D that is ± 15% for each of the target analytes.

10.3.5 Sample injections may continue for as long as the calibration verification standards and standards interspersed with the samples meet instrument QC requirements. The sequence ends when the set of samples has been injected or when qualitative and/or quantitative QC criteria are exceeded.

10.3.6 Use the calibration standards analyzed during the sequence to evaluate retention time stability. The retention time windows are established using the absolute retention time of each analyte in the mid-concentration standard during the initial calibration as the mid-point of the window. The widths of the windows are defined in Section 10.2.7.

10.3.7 Each subsequent injection of a standard during the 12-hour analytical shift (i.e., those standards injected every 20 samples, or more frequently) must be checked against the retention time windows. If any of these subsequent standards fall outside their absolute retention time windows, the GC system is out of control. Determine the cause of the problem and correct it. If the problem cannot be corrected, a new initial calibration must be performed.

10.3.8 Identification of mixtures (i.e. Chlordane and Toxaphene) is based on the characteristic 'fingerprint' retention time and shape of the indicator peak(s); and quantitation is based on the area under the characteristic peaks as compared to the area under the corresponding calibration peaks(s) of the same retention time and shape generated using internal calibration procedures.

10.3.9 If compound identification or quantitation is precluded due to interference (e.g., broad, rounded peaks or ill-defined baselines are present) cleanup of the extract may be needed. If instrument problems are suspected, rerun the extract on another instrument to determine if the problem results from analytical hardware or the sample matrix. Refer to the extraction SOPs for the procedures to be followed in sample cleanup.

10.3.10 For secondary column analysis, a second dissimilar column is utilized to confirm positive pesticide results. The laboratory must report the higher of the two results unless obvious interference is present on one of the columns. All required QA/QC parameters (e.g. calibrations, LCSs, etc.) must be met on the second column as well.

10.3.10.1 The **Relative Percent Difference (RPD)** should be 40 or lower. If the RPD exceeds 40, this will be denoted with a P flag. If the RPD exceedance is due to interference, the lower of the dual column values can be reported with I and P flags.

10.3.11 GC/MS Confirmation

GC/MS confirmation may be used in conjunction with either single-column or dual-column analysis if the concentration is sufficient for detection by GC/MS.

10.3.11.1 Full-scan GC/MS will normally require a concentration of approximately 10ng/µL in the final extract for each single-component compound.

10.3.11.2 The GC/MS must be calibrated for the specific target pesticides when it is used for quantitative analysis.

10.3.11.3 GC/MS may not be used for confirmation when concentrations are below the sensitivity of the instrument.

10.3.11.4 GC/MS confirmation should be accomplished by analyzing the same extract that is used for GC/ECD analysis.

10.3.11.5 The base/neutral/acid extract and the associated blank may be used for GC/MS confirmation if the surrogates and internal standards do not interfere and if it is demonstrated that the analyte is stable during acid/base partitioning. However, if the compounds are not detected in the base/neutral/acid extract, then GC/MS analysis of the pesticide extract should be performed.

10.3.11.6 A QC reference sample containing the compound should also be analyzed by GC/MS. The concentration of the QC reference sample must demonstrate that those pesticides identified by GC/ECD can be confirmed by GC/MS.

10.4 Continuing Calibration Verification

10.4.1 Verify calibration each 12-hour shift by injecting calibration verification standards (CCV) prior to conducting any sample analyses. A calibration standard must be injected at intervals of not less than once every twenty samples and at the end of the analysis sequence for CT-RCP samples.

10.4.1.1 The calibration factor (for external standard compounds) and response factor (for internal standard compounds) for each analyte to be quantitated must not exceed a ± 20% difference when compared to the initial calibration curve. The Enviroquant data processing software automatically calculates the %D for all analytes according to the formulae in Alpha's Quality Manual. The Internal Standard area of the CCV must be within 50%-150% of the Initial Calibration Internal Standard area.

CT-RCP samples require that the response factor (for internal standard compounds) for each analyte to be quantitated must not exceed a ± 15% difference when compared to the initial calibration curve.

10.4.1.2 If this criterion is exceeded, inspect the gas chromatographic system to determine the cause and perform whatever maintenance is necessary before verifying calibration and proceeding with sample analysis.

10.4.1.3 If routine maintenance does not return the instrument performance to meet the QC requirements (Section 10) based on the last initial calibration, then a new initial calibration must be performed. Due to the large number of analytes present, allowances may be made for a CF or RF that drifts out high, as long as there are no positive hits for that particular analyte in any of the associated samples. Any QC failures must be written up by the analyst on narrative sheets for inclusion with the sample data.

10.4.2 Compare the retention time of each analyte in the calibration standard with the absolute retention time windows described in section 10.2.7. The center of the absolute retention time window for each analyte is its retention time in the mid-concentration standard analyzed during the initial calibration. Each analyte in each standard must fall within its respective retention time window. If not, the gas chromatographic system must either be adjusted so that a second analysis of the standard does result in all analytes falling within their retention time windows, or a new initial calibration must be performed and new retention time windows established.

10.5 Internal Standard

The use of internal standard calibration does not require that all sample results be bracketed with CCV standard. However, when internal standard calibration is used, the retention times of internal standards and the area response of internal standards should be checked for each analysis.

10.5.1 **IS in CCAL** – The measured area of the internal standard must be no more than ± 50% different from the average area calculated during initial calibration (-50 to 150%).

10.5.2 **IS in samples** - The measured area of the internal standard must be no more than -50% to +100% different from the area calculated from opening CCV (-50 to 200%)

Retention time shifts of more than 30 seconds from the retention time of the most recent calibration standard are cause for concern and must be investigated.

10.6 Preventive Maintenance

Routine preventive maintenance should be performed to maintain GC system performance. This includes periodic replacement of injector septa, replacement of injector liner(s), and replacement of injector seals.

10.6.1 Other Maintenance

Additional maintenance may be required if system performance degrades.

10.6.1.1 GC injector ports are of critical concern, especially in the analysis of DDT and Endrin.

10.6.1.1.1 Injectors that are contaminated or chemically active can cause the degradation (“breakdown”) of the analytes. Endrin and DDT breakdown to Endrin aldehyde, Endrin ketone, DDD, or DDE.

Check for degradation problems by injecting a standard containing only 4,4’-DDT and Endrin. Presence of 4,4’-DDE, 4,4’-DDD, Endrin ketone or Endrin indicates breakdown. If degradation of either DDT or Endrin exceeds 15%, take corrective action before proceeding with calibration.

When such breakdown is observed, replacement of the injector liner and seal may solve the problem. If not, clip approximately 3 – 6 inches from the injector end of the GC column. If the degradation does not improve, it may be necessary to replace the column(s).

Calculate percent breakdown as follows:

$$\%\ breakdown\ of\ DDT = \frac{sum\ of\ degradation\ peak\ areas\ (DDE + DDD)}{sum\ of\ all\ peak\ areas\ (DDT + DDE + DDD)} * 100$$

$$\%\ breakdown\ of\ Endrin = \frac{sum\ of\ degradation\ peak\ areas\ (Aldehyde + Ketone)}{sum\ of\ all\ peak\ areas\ (Endrin + Aldehyde + Ketone)} * 100$$

10.6.1.1.2 ECD detectors may also become contaminated, requiring bake out at elevated temperatures, or repair by the manufacturer.

11. Data Evaluation, Calculations and Reporting

11.1 Quantitation of Single Component Pesticides

The single component pesticide compounds are calculated as described in Section 10.3.3, and reported in µg/L or µg/Kg units. After performing technical data review, validating that all QC criteria have been met and confirming all positive hits, the data report is sent electronically to the LIMS computer for generation of the client report. There are two levels of review of the data in the LIMS system prior to release of data. These reviews should be done by two separate individuals.

11.1.1 Quantitation of Multiple-Component Analytes

Quantitation is based on use of 3-5 of the major peaks present for chlordane and 4-6 of the major peaks present for Toxaphene. Each of these peaks is individually calibrated with a 10 point calibration based on average response factors. The %RSD must meet the criteria of ≤20%. The 3 to 5 or 4 – 6 major peaks are calculated as described in Section 10.3.3. After individual calculation meets criteria, the average of the major 3-5 or 4 – 6 peaks is used to determine the final concentration.

11.1.1.1 Toxaphene

Toxaphene is quantitated by the internal standard method, using the 4 – 6 largest peaks found in the standard and averaging the resulting concentrations.

11.1.1.2 Chlordane

Chlordane is a mixture of at least 11 major components and 30 or more minor components. Trans- and cis-Chlordane (alpha and gamma, respectively), are the two major components of Chlordane. However, the exact percentage of each in the chlordane material is not completely defined, and is not consistent from batch to batch.

11.1.1.2.1 The GC pattern of a Chlordane residue may differ considerably from that of the chlordane standard. Depending on the sample substrate and its history, residues of Chlordane can consist of almost any combination of constituents from the Chlordane, plant and/or animal metabolites, and products of degradation caused by exposure to environmental factors such as water and sunlight.

11.1.1.2.2 Whenever possible, when Chlordane residue does not resemble Chlordane, the analyst should quantitate the peaks of alpha-Chlordane, gamma-Chlordane, Heptachlor, and trans-Nonachlor separately against the appropriate reference materials, and report the individual residues.

11.1.1.2.3 When the GC pattern of the residue resembles that of Chlordane, the analyst may quantitate Chlordane residues by comparing the total area of the Chlordane chromatogram using the 3-5 major peaks

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

Holding time exceedance and/or improper preservation are noted on the nonconformance report form.

All non-conformances, sample preparatory extraction methods and clean-up methods must be addressed in a case narrative and included in the data report.

Perform instrument maintenance as described throughout this SOP as needed when instrument calibration criteria are not met. Record all maintenance in the instrument logbook.

All batch and sample specific QC criteria outlined in Section 10 are evaluated by the analyst prior to approval of the data. When any QC criteria fail, the cause for the failure must be identified and corrected. This may include instrument recalibration followed by sample reanalysis, sample cleanup, or sample re-extraction. If it is determined that the failure is due to sample matrix effects, a project narrative report is written by the analyst for inclusion in the data report. If there is insufficient sample volume to perform the re-analysis for confirmation, this is also noted in the narrative and included in the client report.

13. Method Performance

13.1 Method Detection Limit Study (MDL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

The laboratory follows the procedure to determine the MDL, LOD, and/or LOQ as outlined in Qualtrax ID 1732. These studies performed by the laboratory are maintained on file for review

13.2 Demonstration of Capability Studies

Refer to Qualtrax ID 1739 for further information regarding IDC/DOC Generation.

13.2.1 Initial (IDC)

The analyst must make an initial, one-time, demonstration of the ability to generate acceptable accuracy and precision with this method, prior to the processing of any samples.

13.2.2 Continuing (DOC)

The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

Refer to Alpha's Chemical Hygiene Plan and Waste Management and Disposal SOP for further pollution prevention and waste management information.

15. Referenced Documents

Chemical Hygiene Plan

Qualtrax ID 1732 MDL/LOQ Generation

Qualtrax ID1739 IDC/DOC Generation

Qualtrax ID 1728 Waste Management and Disposal SOP

16. Attachments

Table 1: REPORTING LIMITS

Table 2: STANDARD SOLUTIONS

Table 3: QC ACCEPTANCE CRITERIA

Table 4: MCP/CT/NJ SPECIFIC ACCEPTANCE CRITERIA

Table 5: QC FAILURE ACTION PLAN

TABLE 1

REPORTING LIMITS*

	RL (Aqueous)	RL (Soil)
Pesticides		
Alpha-BHC	0.02 µg/L	3.33 µg/Kg
Gamma-BHC (Lindane)	0.02 µg/L	2.67 µg/Kg
Heptachlor	0.02 µg/L	4 µg/Kg
Endosulfan I	0.02 µg/L	10 µg/Kg
Dieldrin	0.04 µg/L	5 µg/Kg
Endrin	0.04 µg/L	3.33 µg/Kg
4, 4'-DDD	0.04 µg/L	10 µg/Kg
4, 4'-DDT	0.04 µg/L	15 µg/Kg
Methoxychlor	0.2 µg/L	15 µg/Kg
Aldrin	0.02 µg/L	10 µg/Kg
Beta-BHC	0.02 µg/L	10 µg/Kg
Delta-BHC	0.02 µg/L	10 µg/Kg
Heptachlor Epoxide	0.02 µg/L	15 µg/Kg
trans-Chlordane	0.02 µg/L	10 µg/Kg
cis-Chlordane	0.02 µg/L	10 µg/Kg
4, 4'- DDE	0.04 µg/L	15 µg/Kg
Endosulfan II	0.04 µg/L	15 µg/Kg
Endrin Aldehyde	0.04 µg/L	10 µg/Kg
Endosulfan Sulfate	0.04 µg/L	3.33 µg/Kg
Endrin Ketone	0.04 µg/L	10 µg/Kg
Chlordane	0.2 µg/L	65 µg/Kg
Toxaphene	0.2 µg/L	150 µg/Kg
Alachlor +	0.1 µg/L	10 µg/Kg
Hexachlorobenzene ++	0.02ug/L	8 µg/Kg

*** RL:** Typical laboratory reporting limit. Actual RLs may be higher depending on sample matrix. RLs are not adjusted for % Moisture.

+ CT-RCP only compound.
++ MCP only compound.

TABLE 2

STANDARD SOLUTIONS

	Stock 1 solution (µg/mL)	Stock 2 solution (µg/mL)	Level 11 (µg/L)	Level 10 (µg/L)	Level 9 (µg/L)	Level 8 (µg/L)	Level 7 (µg/L)	Level 6 (µg/L)	Level 5 (µg/L)	Level 4 (µg/L)	Level 3 (µg/L)	Level 2 (µg/L)	Level 1 (µg/L)	Std. Spike Solution (µg/mL)	Std. LCS Solution (µg/mL)
Hexachlorobenzene	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Alpha-BHC	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Lindane	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Heptachlor	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Endosulfan I	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Dieldrin	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Endrin	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
4, 4'-DDD	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
4, 4'-DDT	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Methoxychlor	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Tetrachloro-m-Xylene *	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Decachloro-Biphenyl *	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Aldrin	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Beta-BHC	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Delta-BHC	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Heptachlor Epoxide	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Trans-Chlordane	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Cis-Chlordane	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
4, 4'- DDE	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Endosulfan II	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Endrin Aldehyde	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Endosulfan Sulfate	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Endrin Ketone	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Alachlor	2	0.1	400	200	100	50	10	5	4	3	2	1	0.5	2.0	2.0
Chlordane	50000	1000	10000	5000	2500	1000	500	250	100	20	10	5	2	25	25
Toxaphene	100000	2000	20000	10000	5000	2000	1000	500	200	100	20	10	5	25	25
Internal Standard															
1-Bromo-2-Nitrobenzene	5000	5000	25	25	25	25	25	25	25	25	25	25	25		

* - surrogates

TABLE 3

QC ACCEPTANCE CRITERIA**

	Aqueous		Soil	
Surrogate % Recovery*	**Lower Control Limit**	**Upper Control Limit**	**Lower Control Limit**	**Upper Control Limit**
2,4,5,6-Tetrachloro-m-xylene	30%	150%	30%	150%
Decachlorobiphenyl	30%	150%	30%	150%

*One surrogate on one column is allowed to be outside of the control limits and still be within criteria.

Compound	LCS % Recovery (Aqueous)		LCS % Recovery (Soil)		Duplicate and/or MSD %RPD	
	Lower Control Limit	**Upper Control Limit**	**Target Analyte Limits**	**Marginal Exceedance Limits**	**Aqueous RPD**	**Soil RPD**
Target Analytes LCS/LCSD	30%	150%	30%	150%	≤ 30%	≤ 50%
Target Analytes MS/MSD	30%	150%	30%	150%	≤ 30%	≤ 50%

TABLE 4

MCP/CT/NJ SPECIFIC QC ACCEPTANCE CRITERIA

Compound	LCS % Recovery (Aqueous)		LCS % Recovery (Soil)		Duplicate and/or MSD %RPD	
	Lower Control Limit	**Upper Control Limit**	**Target Analyte Limits**	**Marginal Exceedance Limits**	**Aqueous RPD**	**Soil RPD**
Target Analytes LCS/LCSD	40%	140%	40%	140%	≤ 20%	≤ 30%
Target Analytes MS/MSD	40%	140%	40%	140%	≤ 20%	≤ 30%

TABLE 5

QC FAILURE ACTION PLAN

Blank Failures	Failure Situation	Action(s)
Surrogate Failure	1 of 4 high or low	Report as is
	2 or more high	Report as is
	2 or more low, samples are non-detect with passing surrogates	Report as is
	2 or more low, samples have hits and/or failing surrogates	Revial/rerun Re-extract if still failing
IS Failure	IS not present (less than 10% recovery)	Add IS Rerun
	IS out high or low	Revial/rerun Re-extract if still failing
Contamination	Below RL; sample(s) non-detect, below RL, or concentration 10 times or more above the blank	Report as is
	Below RL, sample(s) concentration above RL	See team leader/manager
	Above RL, sample(s) concentration 10 times or more above the blank	Report as is
	Above RL with non-detect sample(s)	Report as is
	Above RL, sample(s) concentration less than 10 times above the blank and volume available	Revial/rerun Re-extract if contamination still present
	Above RL, sample(s) concentration less than 10 times above the blank and no volume available	Revial/rerun B-flag affected data

LCS/LCSD Failures	Failure Situation	Action(s)
Surrogate Failure	1 or more high or low	Report as is
IS Failure	IS not present (less than 10% recovery)	Add IS Rerun
	IS out high or low	Revial/rerun Re-extract if still failing
Spike Failure	Spike compounds out high and sample(s) are non-detect with passing surrogates	Report as is
	Spike compounds out high and sample(s) have hits	Revial/rerun Re-extract if still high
	Spike compounds out low	Revial/rerun Re-extract if still low
	RPD failure	Report as is

MS/MSD/DUP Failures	Failure Situation	Action(s)
Surrogate Failure	(MS/MSD) 1 or more high or low	Report as is
	(MS/MSD) 2 or more high or low	Report as is
	(DUP) 1 or more high, parent sample non-detect	Report as is
	(DUP) 1 or more low, parent sample matches	Report as is
	(DUP) 1 or more low, parent sample doesn't match	Revial/rerun Re-extract if still failing
IS Failure	IS not present (less than 10% recovery)	Add IS Rerun
	IS out high or low	Revial/rerun Re-extract if still failing
Spike Failure (MS/MSD only)	Compounds out high or low due to sample matrix or hits	Report as is
	Compounds out high or low due to extraction error	Revial/rerun Re-extract if still failing
	RDP failure	Report as is

PCBs

By Capillary Column Gas Chromatography

Reference Methods: Method 8082A SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Update IV, 2007.

Quality Control Requirements and Performance Standards for Analysis of Polychlorinated Biphenyls (PCBs) by Gas Chromatography (GC) in Support of Response Action under the Massachusetts Contingency Plan (MCP), Revision No.1, July 1, 2010.

State of Connecticut, Department of Environmental Protection, RRCP, Version 2.0, July 2006.

1. Scope and Application

Method 8082A is used to determine the concentrations of Polychlorinated Biphenyls (PCBs) as Aroclors in extracts from solid, oil and liquid matrices. This SOP details the analysis for PCBs using fused-silica, open-tubular, capillary columns with electron capture detectors (ECD).

Matrices: Extracts from solid, oil and liquid matrices.

Definitions: See Alpha Laboratories Quality Manual Appendix A

Regulatory Parameter List: The standard compounds listed below are determined by this method.

Parameter	CAS#
Aroclor 1016	12674-11-2
Aroclor 1221	11104-28-2
Aroclor 1232	11141-16-5
Aroclor 1242	53469-21-9
Aroclor 1248	12672-29-6
Aroclor 1254	11097-69-1
Aroclor 1260	11096-82-5
* Aroclor 1262	37324-23-5
*Aroclor 1268	11100-14-4

*Note – not certified by NJ for the oil matrix

The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one of the following laboratory personnel before performing the modification: Area Supervisor, Laboratory Director, or Quality Assurance Officer.
This method is restricted to use by or under the supervision of analysts experienced in the operation of the gas chromatograph (GC) and in the interpretation of gas chromatograms. Each analyst must

demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability (see section 13.2).

2. Summary of Method

A measured volume or weight of sample (volumes and weights can vary but approximately 1L or 140-272 mls (LVI – Low Volume Initiative) for liquids, 1g for oil and up to 15g for solids) is extracted using the appropriate matrix-specific sample extraction technique.

Liquid samples are extracted at neutral pH with methylene chloride using Method 3510C (separatory funnel), or other appropriate technique. See extraction SOP for details.

Solid samples are extracted with methylene chloride: acetone (1:1) using Method 3540C (Soxhlet), or other appropriate technique. Solid samples may also be extracted with hexane:acetone (1:1) using Method 3546 (microwave). See extraction SOP for details.

Wipe samples are extracted with methylene chloride: acetone (1:1) using Method 3540C (Soxhlet) or other appropriate technique. See extraction SOP for details.

Oil samples are diluted with hexane following the procedure outlined in the extraction SOP.

Sulfuric acid cleanup (Method 3665A), Copper cleanup (Method 3660B) and Silica Gel cleanup (Method 3630) are utilized for PCB extracts. See extraction SOP for details.

After cleanup, the extract is analyzed by injecting 1µL into a gas chromatograph equipped with narrow- or wide-bore fused silica capillary columns and electron capture (GC/ECD) detectors.

2.1 Method Modifications from Reference

Not applicable.

3. Reporting Limits

The reporting limits for this method as outlined is as follows:

- **Aqueous samples**: 0.25 ug/L / Aroclor (based on a 1L extraction or 140 ml LVI extraction)

- **Soil Samples**:
  - 33.3 ug/kg / Aroclor based on 15g extraction
  - 50.0 ug/kg / Aroclor based on 10g extraction
  - 100.0 ug/kg / Aroclor based on 5g extraction
  - 250.0 ug/kg / Aroclor based on 2g extraction

- **Oil Samples**: 5 mg/kg based on 1g extraction

- **Solid of Difficult Matrices** (i.e Caulking, Concrete, etc. are logged using the Alpha Low Level 8082 products): based on a 15g extraction
  - Aroclors 1016, 1221, 1232, 1242, 1254: 20 ug/kg
  - Aroclors 1248, 1260: 13.3 ug/kg
  - Aroclors 1262, 1268: 6.67 ug/kg

4. Interferences

4.1 Instrumental

4.1.1 Only high purity gases are used in the GC system to eliminate this source of possible contamination. Both the Hydrogen (carrier gas) and Nitrogen (detector make-up gas) are certified by the gas supplier.

4.1.2 Preventive instrument maintenance is performed routinely, and whenever highly contaminated extracts are analyzed that could result in chromatographic interferences or result in degradation of system performance. Section 10.6 describes the maintenance steps.

4.1.3 Glassware must be scrupulously cleaned. This procedure is detailed in the Organic Extraction Cleaning and Handling SOP/1953. Store dry glassware in a clean environment.

4.2 Parameters

4.2.1 All solvents used are pesticide grade or equivalent, and reagents are purchased as certified contaminant free. All of these materials are routinely determined to be free of interferences by analysis of extraction blanks with every extraction batch performed.

4.2.2 Certain compounds (i.e. phthalates) can be extracted from the sample matrix and be detected by the ECD that could possibly result in false positive results or complicate the data interpretation. The use of the cleanup procedures detailed in the extraction SOP minimizes these possible interferences. Analyst experience is also crucial in making compound determinations.

4.2.3 Interferences co-extracted from the samples will vary considerably from waste to waste. While a general cleanup technique is referenced or provided as part of the method, unique samples may require additional cleanup approaches to achieve desired degrees of discrimination and quantitation.

5. Health and Safety

The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound must be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material data handling sheets is available to all personnel involved in the chemical analysis. PCBs have been tentatively classified as known or suspected human or mammalian carcinogens. Additional references to laboratory safety are available in the Chemical Hygiene Plan.
All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

5.1 Lab coats, safety glasses, and gloves must be worn when handling samples, extracts, standards or solvents.

5.2 All solvent and extract transfers must be handled in the vented bench area in the GC laboratory.

5.3 All stock standards, working standards, and vialed sample extracts must be placed into the waste bucket in the lab, for future disposal by the Hazardous Waste Manager. The container must be labeled properly with hazard warning labels indicating the container contents.

5.4 Bottles containing flammable solvents must be stored in the flammable's cabinet.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection

Aqueous samples are collected in two 1L or two 140 ml (LVI) amber glass jars with Teflon-lined lids. Solid samples are collected in one 250 mL wide-mouth glass jar with a Teflon-lined lid. Oil samples are collected in a glass jar with Teflon-lined lids. All containers are purchased pre-cleaned and certified from commercial vendors.

6.2 Sample Preservation

Both aqueous and solid samples are then preserved by packing in coolers with ice or ice packs, to maintain a temperature of 4 ± 2° C. Upon receipt at the laboratory, the samples are transferred into sample storage refrigerators to maintain at a temperature of 4 ± 2° C. Preservation is not required for oil samples.

6.3 Sample Handling

TCLP/SPLP tumbled extracts, NJ DKQP and RCP CT aqueous samples must be extracted within 7 days of sample collection, solid and oil samples within 14 days of collection (NJ DKQP allows 365 days for solids if frozen). All other samples, both aqueous and solid, have a 365-day hold time. Once extracted, the samples must be analyzed within 40 days of the extraction date.

7. Equipment and Supplies

7.1 Gas Chromatograph, Agilent 6890, 7890: An analytical system completed with gas chromatograph configured for split-splitless injection and all required accessories including syringes, analytical columns, gases, electron capture detectors (ECD), and data system.

7.2 GC Columns: Alpha utilizes dual-column analyses. The dual-column approach involves a single injection that is split between two columns that are mounted in a single gas chromatograph. Typical column pair used is listed below. Other columns may be used as long as method performance criteria can be met.

Column pair:

RTX-CLP: Cat. #11141 from Restek or equivalent; 30m, 0.32mm, 0.32µm

RTX-CLPII Cat. #11324 from Restek or equivalent; 30m, 0.32mm, 0.25µm

7.3 Guard Column: Cat. #10027 from Restek or equivalent; 5m, 0.32mm

7.4 Class "A" Volumetric Flasks: 10mL and 25mL (and other volumes), for standards preparation

7.5 Microsyringes: 10 µL – 1000 µL

7.6 Gooseneck splitless injecton liner, Cat #20799-214.5 from Restek or equivalent

7.7 Universal "Y" Press-tight tee split: Cat. #20406 from Restek or equivalent / **Siltek MXT Connector:** Cat. #21388 from Restek or equivalent

8. Reagents and Standards

Reagent grade or pesticide grade chemicals are used in all tests. Unless otherwise indicated, it is intended that all reagents shall conform to specifications of the Committee on Analytical Reagents of the American Chemical Society, where such specifications are available. Other grades may be used, provided it is first ascertained that the reagent is of sufficient high purity to permit its use without lessening the accuracy of the determination.
NOTE: Store the standard solutions (stock, composite, calibration, internal, and surrogate) at 4 ± 2° C in Teflon(R)-sealed containers in the dark. When a Lot of standards is prepared, aliquots of that Lot are stored in individual small vials. All stock standard solutions must be replaced after one year or sooner if routine QC tests indicate a problem. All other standard solutions must be replaced after six months or sooner if routine QC indicates a problem.

8.1 n-Hexane: Pesticide quality or equivalent.

8.2 Acetone: Pesticide quality or equivalent.

8.3 Organic-free Reagent Water: All references to water in this method refer to organic-free reagent water from Alpha's RO water treatment system.

8.4 Stock Standard Solutions: All stock standard solutions are purchased from commercial vendors as ampullated certified solutions. When an ampullated stock solution is opened, it is transferred to a labeled amber screw-cap vial. The expiration date of the stock solution is either the vendor specified expiration date, or 1 year from the date the ampule was opened, whichever is sooner.

8.5 Calibration Standards: Calibration standards are prepared volumetrically by diluting the appropriate stock standard(s) with hexane. Calibration standards expire 6 months from the date of preparation, or on the earliest expiration date of any of the stock solutions used to prepare the calibration standard. Calibrations are performed at the 6 concentration levels listed in Table 1. The list of ampullated calibration standards are obtain from **Agilent**:

- Aroclor 1016, Cat. #PP-282, at 100ug/mL
- Aroclor 1260, Cat. #PP-361, at 100ug/mL
- Aroclor 1262, Cat. #PP-371, at 100ug/mL
- Aroclor 1268, Cat. #PP-382, at 100ug/mL
- Aroclor 1221, Cat. #PP-292, at 100ug/mL
- Aroclor 1232, Cat. #PP-302, at 100ug/mL
- Aroclor 1242, Cat. #PP-312, at 100ug/mL

- Aroclor 1248, Cat. #PP-342, at 100ug/mL
- Aroclor 1254, Cat. #PP-351, at 100ug/mL

8.5.1 Preparation of Initial Calibration Standards:

- **1660 L6**: (mix of Aroclors 1016 and 1260) is prepared by diluting
  - 2.5uL 1016 Standard (Agilent, Cat. #PP-282)
  - 2.5uL 1260 Standard (Agilent, Cat. #PP-361)
  - 1.6mL of PCB ICAL Surrogate Stock

  to 25ml of Hexane to achieve concentration of
  - 1016 and 1260 at 10ug/mL
  - TCMX at 0.64ug/mL and DCB at 1.28ug/mL.
- **For LVI**, this solution is diluted 10X more, achieving a concentration of
  - 1016 and 1260 at 1ug/mL
  - TCMX at 0.064ug/mL and DCB at 0.128ug/mL
- **2154 L6:** (mix of Aroclors 1221 and 1254) is prepared by diluting
  - 2.5uL 1221 Standard (Agilent, Cat. #PP-292)
  - 2.5uL 1254 Standard (Agilent, Cat. #PP-351)

  to 25ml of Hexane to achieve concentration of
  - 1221 and 1254 at 10ug/mL
- **For LVI**, this solution is diluted 10X more, achieving a concentration of
  - 1221 and 1254 at 1ug/mL
- **4268 L6** (mix of Aroclors 1242 and 1268), **3262 L6** (mix of Aroclors 1232 and 1262) and **1248 L6;** all are prepared from their respective Stock Standards according to the formula used for L6 of 2154.
- Levels 1-5 are prepared by serial dilutions of L6s and formula with volumes needed can be found in Table 2.

8.6 Second Source Standards: (ICV) Initial Calibration Verification standards are prepared volumetrically by diluting the appropriate stock standard(s) with hexane. Initial Calibration Verification standards expire 6 months from the date of preparation, or on the earliest expiration date of any of the stock solutions used to prepare the standard. The list of ampullated standards are obtain from **Accustandard**:

- Aroclor 1016, Cat. #C-216S-H-10X, at 1000ug/ml
- Aroclor 1260, Cat. #C-260S-H-10X, at 1000ug/ml
- Aroclor 1262, Cat. #C-262S-H-10X, at 1000ug/ml
- Aroclor 1268, Cat. #C-268S-H-10X, at 1000ug/ml
- Aroclor 1221, Cat. #C-221S-H-10X, at 1000ug/ml
- Aroclor 1232, Cat. #C-232S-H-10X, at 1000ug/ml
- Aroclor 1242, Cat. #C-242S-H-10X, at 1000ug/ml
- Aroclor 1248, Cat. #C-248S-H-10X, at 1000ug/ml
- Aroclor 1254, Cat. #C-254S-H-10X, at 1000ug/ml

8.6.1 Preparation of ICV Standards:

- **1660 ICV:** is prepared by diluting
  - 50uL 1016 Standard (AccuStandard, Cat. #C-216S-H-10X)
  - 50uL 1260 Standard (AccuStandard, Cat. #C-260S-H-10X)
  - 320uL of PCB CCAL Surrogate Stock

  to 20ml of Hexane to achieve concentration of
  - 1016 and 1260 at 2.5ug/mL
  - TCMX at 0.16ug/mL and DCB at 0.32ug/mL
- **For LVI**, this solution is diluted 10X more, achieving a concentration of
  - 1016 and 1260 at 0.25ug/mL
  - TCMX at 0.016ug/mL and DCB at 0.032ug/mL
- **2154, 4268, 3262 and 1248 ICVs** are prepared from their respective Stock Standards according to the formula used for 1660 ICV.

8.7 Internal Standard Solution: 1-Bromo-2-nitrobenzene (Ultra, Cat. #PPS-351) is used as the internal standard and is added to all single-component calibration standards and sample extracts to achieve a concentration of 0.25µg/mL. For LVI, this solution is diluted 10X more, achieving a concentration of 0.025µg/mL.

8.8 Surrogate Standards: Tetrachloro-m-xylene (TCMX) and Decachlorobiphenyl (DCB) are used as surrogates for Aroclor analysis. They are added to the calibration standards at the concentrations listed in Table 1, Continuing Calibration Standards and are spiked into all samples and QC samples prior to extraction.

- **ICAL Surrogates Stock:** is prepared by diluting of 500uL of Pesticides Surrogates Standard Spiking Solution (Ultra, Cat. #ISM-320-1) and 500uL of Decachlorobiphenyl (Accustandard, Cat. #CLP-032-R-01) to 20mL of Hexane to achieve concentration of TCMX at 5ug/mL and DCB at 10ug/mL. For LVI, this solution is diluted 10X more, achieving a concentration of 0.5ug/mL for TCMX and 0.1ug/mL for DCB.
- **CCAL Surrogates Stock:** is prepared by diluting of 1mL of TCMX&DCB (Accustandard, Cat. #CLP-032-R) and 1mL of Decachlorobiphenyl (Accustandard, Cat. #CLP-032-R-01) to 20mL of Hexane to achieve concentration of TCMX at 10ug/mL and DCB at 20ug/mL. For LVI, this solution is diluted 10X more, achieving a concentration of 1 ug/ml for TCMX and 2 ug/mL for DCB.
- **Extraction Surrogates Stock:** is prepared by diluting of 10mL of TCMX&DCB (Accustandard, Cat. #CLP-032-R) to 1000mL of Acetone to achieve concentration of TCMX and DCB at 2ug/mL. For LVI, this solution is diluted 10X more, achieving a concentration of 0.2 ug/mL for both TCMX and DCB.
- **PCB Caulking Surrogates Stock:** is prepared by diluting of 10mL of TCMX&DCB (Accustandard, Cat. #CLP-032-R) to 100mL of Acetone to achieve concentration of TCMX and DCB at 20ug/mL.
- **PCB Oil Surrogate Stock:** is prepared by diluting of 5mL of TCMX&DCB (Accustandard, Cat. #CLP-032-R) to 500mL of Hexane to achieve concentration of TCMX and DCB at 2.0ug/mL.

8.9 LCS/MS Spiking Solutions:

- **PCB Matrix Spike:** The LCS/MS spiking solution is prepared by diluting of 6.25mL of Arochlor 1016/1260 (Restek, Cat. #32039) to 500mL of Acetone to achieve

concentration of Arochlor 1016/1260 at 12.5ug/ml. For LVI, 1.25mL of the stock solution is diluted to 500mL of Acetone to achieve a concentration of Aroclor 1016/1260 at 2.5 ug/mL.

- **PCB Caulking Matrix Spike:** The LCS/MS spiking solution is prepared by diluting of 6.25mL of Arochlor 1016/1260 (Restek, Cat. #32039) to 50mL of Acetone to achieve concentration of Arochlor 1016/1260 at 125ug/mL.

- **PCB Oil Matrix Spike:** The LCS/MS spiking solution is prepared by diluting of 2.5mL of Arochlor 1016/1260 (Restek, Cat. #32039) to 200mL of Hexane to achieve concentration of Arochlor 1016/1260 at 12.5ug/mL.

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 Blank(s)

A Method Blank is an aliquot of a clean reference matrix (reagent water for water samples, Ottawa sand for soil/sediment samples, or PCB free transformer oil for oil samples) that is carried through the entire analytical procedure. Extraction blanks are performed with each extraction batch of 20 or less samples, according to the extraction SOPs. The extraction blank must not contain any of the reportable analytes above the reporting limit. If any reportable analytes are detected in the blank, the entire extraction batch is suspect and re-extraction of all associated samples is required, unless the associated samples are non-detect or concentration of the analyte in the samples is 10 times greater than the concentration of this analyte in the blank. The surrogate recoveries must also be within the acceptance criteria listed in Table 3. If surrogate acceptance criteria are exceeded, the extraction batch must be evaluated to determine if re-extraction or re-analysis is necessary. Actions associated with Method Blank failures are listed in Table 5.

9.2 Laboratory Control Sample (LCS)

A Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) pair is extracted with each analytical batch. The LCS/LCSD consist of an aliquot of a clean (control) matrix similar to the sample matrix and of the same weight or volume. For Aroclor analysis, the LCS/LCSD are spiked with a mixture of Aroclor 1016 and 1260 (1660) at the levels listed in Table 4. The recovery acceptance criteria are listed in Table 3. If any recovery criteria are not met, the extract may be re-analyzed. If the criteria are still not met, the **entire batch is re-extracted**, unless the recoveries are high, and the associated samples are non-detect. If this is not possible, due to insufficient sample or holding time exceedances, the analyst must narrate the failure in the LIMS for inclusion in the client report. Actions associated with LCS/LCSD failures are listed in Table 5.

9.3 Initial Calibration Verification (ICV)

Refer to Section 10.2.7.

9.4 Continuing Calibration Verification (CCV)

Refer to Section 10.4.

9.5 Matrix Spike/ Matrix Spike Duplicate (MS/MSD)

Matrix Spike and Matrix Spike Duplicate are field samples spiked with known target analyte(s) at the levels listed in Table 4. Upon client request, a MS/MSD pair is extracted and analyzed with each batch of 20 or less samples. MS samples serve as a measure of extraction accuracy, by allowing the comparison of the found amount(s) of target analyte(s) with the spiked amount(s). An MS/MSD set also allows for the calculation of the extraction precision, by comparing the results of the two samples. The recovery acceptance criteria are listed in Table 3. If the recovery criteria are not met, but are met in the LCS, the failure may be attributed to sample matrix effects. Actions associated with MS/MSD failures are listed in Table 5.

For samples with a state of origin of New Jersey, a MS must be extracted for every twenty samples within a 24hr period.

9.6 Laboratory Duplicate (DUP)

Duplicates are laboratory selected replicate samples, prepared by taking an additional sample aliquot of a sample. Upon client request, a DUP is extracted and analyzed with batch of 20 or less samples. Duplicates serve as a measure of the extraction precision, by comparing the results of the sample and duplicate. The relative percent difference (RPD) acceptance criteria are listed in Table 3. If the RPD criteria are not met, the failure may be attributed to matrix effect. Actions associated with DUP failures are listed in Table 5.

For samples with a state of origin of New Jersey, a DUP must be extracted for every twenty samples within a 24hr period.

9.7 Surrogates

All extracted samples and associated QC are spiked with surrogates at the levels listed in Table 4. The laboratory must evaluate surrogate recovery data from individual samples and QC samples versus the surrogate control limits listed in Table 3. If the surrogate limits are not met, the extract may be reanalyzed to determine if the failure was due to an instrument problem. If the criteria are still not met, the affected samples must be re-extracted to confirm that the failure was due to sample matrix, unless the surrogate recovery is high, and the associated sample is non-detect. If matrix effect is confirmed, this must be noted on a narrative sheet for inclusion in the client report.

9.8 Method Sequence

Typical Initial calibration (each level to identified with the standard lot number)

1. Prime
2. Blank
3. Standard Level 1
4. Standard Level 2

5. Standard Level 3
6. Standard Level 4
7. Standard Level 5
8. Standard Level 6
9. Initial Calibration Verification Standard (ICV)

Repeat steps 3 – 9 as needed for each Aroclor necessary for calibration.

NOTE: If multiple calibration mixtures are analyzed, it is acceptable to analyze appropriate ICVs after all calibration standards have been injected.

Typical Daily Sequence

1. 1660 Continuing Calibration Standard **(identified with the standard lot number)**
2. Extraction Blank
3. Laboratory Control Sample
4. Matrix Spike / Matrix Spike Duplicate (if requested by Client)
5. Duplicate (if included with batch QC)
6. Samples up to 16
7. Repeat 1 – 6 as needed.

10. Procedure

10.1 Equipment Set-up

10.1.1 GC Conditions:

The dual-column / dual-detector approach involves the use of the columns listed in section 7.2. The columns are connected to an injection tee or dual injection GC, and separate electron capture detectors. Alpha typical GC conditions are listed below but may be altered as long as method performance criteria are met.

	OVEN TEMP PROGRAM
Temperature 1	150 ^{0}C
Time 1	0 min
Ramp 1	45^{0}C/minute
Temperature 2	230^{0}C
Time 2	0 min
Ramp 2	30^{0}C/minute
Temperature 3	330^{0}C
Time 3	1 min

	INSTRUMENT CONDITIONS
Injector temperature	250^{0}C
Injector mode	Split
Split Flow	60.1 mL/min
Total Flow	78.2 mL/min
Detector temperature	350^{0}C
Carrier gas	Hydrogen
Carrier flow	20mL/min
Carrier mode	Constant flow
Makeup gas	Nitrogen
Total detector flow	60mL/min
Injection Volume	1µL

10.2 Initial Calibration

10.2.1 Prepare calibration standards using the standards listed in Section 8.5 to achieve the concentrations from Table 1. Alternatively, a standard containing a mixture of Aroclor 1016 and Aroclor 1260 will include many of the peaks represented in the other five Aroclor mixtures. As a result, a multi-point initial calibration employing a mixture of Aroclors 1016 and 1260 (1660) at five concentrations should be sufficient to demonstrate the linearity of the detector response without the necessity of performing multi-point initial calibrations for each of the seven Aroclors. In addition, such a mixture can be used as a standard to demonstrate that a sample does not contain peaks that represent any one of the Aroclors. Single standards of each of the other seven Aroclors are required to aid the analyst in pattern recognition. Assuming that the Aroclor 1016/1260 standards have been used to demonstrate the linearity of the detector, these single standards of the remaining seven Aroclors also may be used to determine the calibration factor for each Aroclor when a linear calibration model through the origin is chosen. Prepare a standard for each of the other Aroclors. The concentrations should generally correspond to the mid-point of the linear range of the detector, but lower concentrations may be employed.

10.2.2 Establish the GC operating conditions by loading the appropriate GC method. Typical instrument conditions are listed in section 10.1.1. The same operating conditions are used for calibrations and sample analyses. Create the analytical sequence using the Agilent Chemstation data acquisition software. Record the calibration standard, unique lot number (PP#) and analyst's initials in the analytical sequence list.

10.2.3 A 1µL injection volume of each calibration standard is typically used. Other injection volumes may be employed, provided that the analyst can demonstrate adequate sensitivity for the compounds of interest. The same injection volume must be used for all standards and samples.

10.2.4 Column adsorption may be a problem when the GC has not been used for a day or more or after system maintenance. The GC column may be primed (or deactivated) by injecting a PCB standard mixture approximately 20 times more concentrated than the mid-concentration standard. Inject this standard mixture prior to beginning the initial calibration or calibration verification.

Alternately, the system may be primed by baking at the final analytical temperature for approximately 30 minutes.

Several analytes may be observed in the injection just following system priming. Always run an instrument blank after system priming.

10.2.5 **Calibration Factor:** Internal Standard Calibration techniques are employed in this method.

10.2.5.1 Internal Standard Procedure. In each standard, calculate the response factor (RF) for each analyte, the average RF, and the relative standard deviation (RSD) of the RFs, using the Enviroquant data processing software. The calculations are performed automatically, using the formula listed in Alpha's Quality Manual.

Alternatively, standards of the other seven Aroclors are necessary for pattern recognition. When employing the traditional model of a linear calibration through the origin, these standards are also used to

determine a single-point calibration factor for each Aroclor, assuming that the Aroclor 1660 mixture has been used to describe the detector response.

The standards for these seven Aroclors should be analyzed before the analysis of any samples with hits above the RL. For example, an Aroclor 1254 standard should be analyzed before a sample with a hit of Aroclor 1254.

10.2.6 Initial Calibration Criteria

- If the **RSD for an analyte is < 20%**, then the response of the instrument for this compound is considered linear over the range and the mean calibration factor can be used to quantitate sample results.
- If the **RSD for any analyte is > 20%**, then linearity through the origin cannot be assumed. The mean response factor cannot be used for quantitation. An alternative calculation may be done by the use of **linear regression** or **quadratic regression** (minimum of six ICAL points are needed and regression must be weighted inversely proportional to concentration) as long as the correlation coefficient is **>0.990**. If both of these quantitation methods fail criteria for any compound in the initial calibration, then the system must be reevaluated, and a new calibration curve must be analyzed. If quadratic regression is used for calibration, this must be noted in the laboratory narrative.
- **MCP (Massachusetts Contingency Plan) requirement**: minimum of five unique peaks must be evaluated for Aroclors 1016 and 1260.
- **MCP requirement:** Minimum of five standards (or six if non-linear regression used) must be used.
- **Percent Relative Error (%RE)**: For linear and quadratic fit compounds, the %RE must be calculated for the standard at or near the midpoint and at the lowest level of the initial calibration. The %RE between the calculated and expected concentration of an analyte must be **≤ 30%**, otherwise recalibration is necessary.

10.2.7 Initial Calibration Verification

An initial calibration verification standard must be run immediately after each initial calibration, near the midpoint of the curve. The standard must be prepared using a second source that is different than the source used for the initial calibration. (Standards listed in Section 8.6). The **%D** has to be within **20%** (**15% for CT RCP**) when compared to the mean response factor from the initial calibration.

10.2.8 Retention Time Window

10.2.8.1 The retention time window used for the identification of target analytes is ± 0.07 minutes. These criteria have been adopted from the EPA CLP Statement of Work (OLM04.2). It has been found that these limits work well, being wide enough to eliminate false-negatives while being tight enough to eliminate false-positives. Windows that are calculated using the procedure recommended in Method 8000 tend to be very narrow, creating the risk of false negative results.

10.2.8.2 The windows listed above are used as guidance; however, the experience of the analyst weighs heavily in the interpretation of the chromatograms. For example, it has been observed that certain oil matrices can cause the retention times to shift more dramatically.

10.3 Sample Processing

The determination of PCB Aroclors is accomplished by comparing the sample chromatogram to that of the most similar Aroclor standard. The use of PCB overlays is extremely helpful, either by using hardcopies of chromatograms or by utilizing the Enviroquant software. A choice must be made as to which Aroclor is most similar and whether that standard is truly representative of the PCB in the sample. Both retention time and pattern are important when determining PCBs in a sample.

Samples that contained weathered PCB present special analytical challenges. Weathering could alter the Aroclor pattern to the extent that different peaks have to be selected for quantitation. Samples that contained more than one Aroclor present similar problems. For these samples, the Analyst may have to consider selecting the earlier eluting peaks for the lower boiling Aroclor and selecting the later eluting peaks for the higher boiling Aroclors to minimize overlapping peaks.

Minimum of 3 peaks must be chosen for each Aroclor. In these instances, the Analyst may need request the assistance of someone with more expertise in determining the presence of PCB Aroclor.

If compound identification or quantitation is precluded due to interference (e.g., broad, rounded peaks or ill-defined baselines are present) cleanup of the extract may be needed. If instrument problems are suspected, rerun the extract on another instrument to determine if the problem results from analytical hardware or the sample matrix. Refer to the extraction SOPs for the procedures to be followed in sample cleanup.

- The laboratory must report the ***HIGHER*** of the two results unless obvious interference is present on of the columns.
- The **Relative Percent Difference (RPD)** should be **≤ 40%.** If the RPD exceeds 40, this will be denoted with a P flag. If the RPD exceedance is due to interference, the lower of the dual column values can be reported with I and P flags.

10.4 Continuing Calibration

10.4.1 Verify calibration each **12-hours** shift by injecting calibration verification standards prior to conducting any sample analyses. A calibration standard must also be injected at intervals of not less than **once every twenty injections**.

A bracketing CCV is not required with the use of internal standard calibration (Method 8082A 11.6.8) with the exception of samples ran under CT RCP method.

For Aroclor analysis, the calibration verification standard should be a mixture of Aroclor 1016 and 1260 (1660). The calibration verification process does not require analysis of the other Aroclor standards used for pattern recognition

(Method 8082A 11.6.2). However, if the one-point calibration is used for the seven other Aroclor, a calibration standard must be analyzed before the sample for any hits.

10.4.2 The **Response Factor** (for internal standard compounds) for each analyte to be quantitated must not exceed a **± 20% difference** when compared to the initial calibration curve (**+ 15% for CT RCP**). The Enviroquant data processing software automatically calculates the **%D** for all analytes according to the formulae in Alpha's Quality Manual.

10.4.3 **A Retention Time shift >30 seconds** for the internal standard necessitates reanalysis of all affected samples.

10.5 Internal Standard

The use of internal standard calibration does not require that all sample results be bracketed with CCV standard. However, when internal standard calibration is used, the retention times of internal standards and the area response of internal standards should be checked for each analysis (10.4.3).

10.5.1 **IS in CCAL** – The measured area of the internal standard must be no more than ± 50% different from the average area calculated during initial calibration **(-50 to 150%).**

10.5.2 **IS in samples** - The measured area of the internal standard must be no more than -50% to +100% different from the area calculated from opening CCV **(-50 to 200%)**

Retention time shifts of more than 30 sec from the retention time of the most recent calibration standard are cause for concern and must be investigated.

10.6 Preventive Maintenance

10.6.1 **Preventive Maintenance:** Routine preventive maintenance is performed to maintain GC system performance. This includes periodic replacement of injector septa, replacement of injector liner(s), and replacement of injector seals.

10.6.2 **Other Maintenance:** ECD detectors may become contaminated, requiring bake out at elevated temperatures, (no greater than 375°C) or repair by the manufacturer.

11. Data Evaluation, Calculations and Reporting

11.1 Quantitation of Aroclors

Per Method 8082A, quantitation is based on the use of a minimum of 3 of the major peaks present in the analyte, although the use of 5 of the major peaks is recommended. Each of these peaks is individually calibrated with a **minimum of five calibration points** based on average response factors. The %RSD must meet the criteria of ≤20% for the ICAL. The five major peaks are calculated as described below. After individual calculation meets criteria, the average of the peaks selected for quantitation is used to determine the final concentration.

11.1.1 Aqueous samples

$$\text{Concentration } (\mu g/L) = \frac{C \times DF \times Vf \times 1000}{Vo}$$

where:
C = Extract concentration (µg/mL), **NOTE**: ng on column = ng/injection volume = ng/uL = ug/mL
DF = Dilution factor
Vf = Final extract volume (mL)
Vo = Sample volume (mL)

11.1.2 Soil/sediment samples

$$\text{Concentration } (\mu g/Kg, \text{ dry weight}) = \frac{C \times DF \times Vf \times 1000}{W \text{ (gm)}} \div \%S$$

where:
C = Extract concentration (µg/mL), **NOTE**: ng on column = ng/injection volume = ng/uL = ug/mL
DF = Dilution factor
Vf = Final extract volume (mL)
W = Weight of the sample extracted (10g for high, 30g for low)
%S = Percent solids, as a decimal value

11.1.3 Reporting Results

11.1.3.1 After performing technical data review, validating that all QC criteria have been met and confirming all positive hits, the data report is sent electronically to the LIMS computer for generation of the client report. There are two levels of review of the data in the LIMS system prior to release of data. These reviews must be done by two separate individuals.

11.1.3.2 Reporting Results for PCBs in Caulking Samples

If in the screen sample Aroclor concentration as calculated above is **≥20000ppm**, the Client is contacted by a Customer Service Representative and these results are sent to the LIMS and reported to the Client.

If the sample concentration as calculated above for any Aroclor is **<20000ppm**, the sample is sent for re-extraction by Method 3540C (Alpha SOP/1954).

11.1.3.3 Summation Rules

"TOTAL" concentrations are calculated for **ALL samples and Quality Control Samples** (i.e. LCS, MS, DUP, BLK).

TOTAL = sum of "reportable" Aroclors

Reportable- all Aroclors reported for associated project.

For dual-column analysis, Total is reported as part of column "A" data, unless all individuals are reported from "B" column. "Total" is calculated based on the associated "Report List". See Work Instruction #14335 for details.

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

Holding time exceedance and/or improper preservation are noted on the nonconformance report form.

Perform instrument maintenance as described throughout this SOP as needed when instrument calibration criteria are not met. Record all maintenance in the instrument logbook.

All batch and sample specific QC criteria outlined in Section 10 are evaluated by the analyst prior to approval of the data. When any QC criteria fail, the cause for the failure must be identified and corrected. This may include instrument recalibration followed by sample reanalysis, sample cleanup, or sample re-extraction. If it is determined that the failure is due to sample matrix effects, a project narrative report is written into the LIMS by the analyst for inclusion in the data report. If there is insufficient sample volume to perform the re-analysis for confirmation, this is also noted in the narrative and included in the client report.

13. Method Performance

13.1 Method Detection Limit Study (MDL) / Limit of Quantitation (LOQ)

The laboratory follows the procedure to determine the MDL, LOD, and/or LOQ as outlined in Alpha SOP/1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

Refer to Alpha SOP/1739 for further information regarding IDC/DOC Generation.

13.2.1 Initial (IDC)

The analyst must make an initial, one-time, demonstration of the ability to generate acceptable accuracy and precision with this method, prior to the processing of any samples.

13.2.2 Continuing (DOC)

The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method

14. Pollution Prevention and Waste Management

Refer to Alpha's Chemical Hygiene Plan and Waste Management and Disposal SOP for further pollution prevention and waste management information.

15. Referenced Documents

Chemical Hygiene Plan

SOP/1732 MDL/LOQ Generation

SOP/1739 IDC/DOC Generation

SOP/1728 Waste Management and Disposal SOP

16. Attachments

Table 1: STANDARD SOLUTIONS

Table 2: PCB ICAL PREPARATION

Table 3: QC ACCEPTANCE CRITERIA

Table 4: SPIKING LEVEL

Table 5: QC FAILURE ACTION PLAN

TABLE 1

STANDARD SOLUTIONS – Suggested Concentrations

STANDARD SOLUTIONS	Stock solution (ug/mL)	Level 1 (ug/mL)	Level 2 (ug/mL)	Level 3 (ug/mL)	Level 4 (ug/mL)	Level 5 (ug/mL)	Level 6 (ug/mL)
PCB							
Aroclor 1016/1260	100	0.1	0.5	1	2.5	5	10
Aroclors 1221, 1232, 1242, 1254, 1262, 1268	100	0.1	0.5	1	2.5	5	10
LVI		0.01	0.05	0.1	0.25	0.5	1
Internal Standard							
1-Bromo-2-Nitrobenzene	5000	0.25	0.25	0.25	0.25	0.25	0.25
LVI		0.025	0.025	0.025	0.025	0.025	0.025
Surrogates:							
Tetrachloro-m-xylene	2.0	0.0064	0.032	0.064	0.16	0.32	0.64
Decachlorobiphenyl	2.0	0.0126	0.064	0.128	0.32	0.64	1.28
LVI – 10X less							

LVI is spiked 10X lower

TABLE 2

PCB ICAL PREPARATION:

Aroclors: 1660, 2154, 4268, 3262, 1248				
Level	**Conc [ug/L]**	**Spike**	**Spike [uL]**	**Hexane [mL]**
6	10000	L6	1000	0
5	5000	L6	500	500
4	2500	L6	250	750
3	1000	L6	100	900
2	500	L6	50	950
1	100	L6	10	990

TABLE 3

QC ACCEPTANCE CRITERIA

Aqueous, Soils, Oils		
Surrogate % Recovery	**Lower Control Limit**	**Upper Control Limit**
2,4,5,6-Tetrachloro-m-xylene	30%	150%
Decachlorobiphenyl	30%	150%

	Aqueous, Soils % Recovery		**Duplicate and/or MSD**	
MS/MSD and LCS	**Lower Control Limit**	**Upper Control Limit**	**Aqueous RPD**	**Soil RPD**
Aroclor 1016, 1260	40%	140%	30%	50%

TABLE 4

SPIKING LEVEL

	LCS\MS\Surr Spiking Level			
	Spike Solution [ug/mL]	**Surr. Solution [ug/mL]**	**Spike Conc [ug/L]**	**Surr Conc [ug/L]**
LVI	0.2	0.2	250	200
Soil/Water	12.5	2	3125	500
Oil	12.5	2	1250	200
Caulking	125	20	3125	200

TABLE 5

QC FAILURE ACTION PLAN

Blank Failures	Failure Situation	Action(s)
Surrogate Failure	1 of 4 high or low	Report as is
	2 or more high	Report as is
	2 or more low, samples are non-detect with passing surrogates	Report as is
	2 or more low, samples have hits and/or failing surrogates	Revial/rerun Re-extract if still failing
IS Failure	IS not present (less than 10% recovery)	Add IS Rerun
	IS out high or low	Revial/rerun Re-extract if still failing
Contamination	Below RL; sample(s) non-detect, below RL, or concentration 10 times or more above the blank	Report as is
	Below RL, sample(s) concentration above RL	See team leader/manager
	Above RL, sample(s) concentration 10 times or more above the blank	Report as is
	Above RL with non-detect sample(s)	Report as is
	Above RL, sample(s) concentration less than 10 times above the blank and volume available	Revial/rerun Re-extract if contamination still present
	Above RL, sample(s) concentration less than 10 times above the blank and no volume available	Revial/rerun B-flag affected data

LCS/LCSD Failures	Failure Situation	Action(s)
Surrogate Failure	1 or more high or low	Report as is
IS Failure	IS not present (less than 10% recovery)	Add IS Rerun
	IS out high or low	Revial/rerun Re-extract if still failing
Spike Failure	Spike compounds out high and sample(s) are non-detect with passing surrogates	Report as is
	Spike compounds out high and sample(s) have hits	Revial/rerun Re-extract if still high
	Spike compounds out low	Revial/rerun Re-extract if still low
	RPD failure	Report as is

MS/MSD/DUP Failures	Failure Situation	Action(s)
Surrogate Failure	(MS/MSD) 1 or more high or low	Report as is
	(MS/MSD) 2 or more high or low	Report as is
	(DUP) 1 or more high, parent sample non-detect	Report as is
	(DUP) 1 or more low, parent sample matches	Report as is
	(DUP) 1 or more low, parent sample doesn't match	Revial/rerun Re-extract if still failing
IS Failure	IS not present (less than 10% recovery)	Add IS Rerun
	IS out high or low	Revial/rerun Re-extract if still failing
Spike Failure (MS/MSD only)	Compounds out high or low due to sample matrix or hits	Report as is
	Compounds out high or low due to extraction error	Revial/rerun Re-extract if still failing
	RDP failure	Report as is

Semivolatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS)

Reference Method No.: **EPA 8270 E**

Reference: SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Update VI (Phase II), June, 2018.

1. Scope and Application

Matrices: This method is used to determine the concentration of semivolatile organic compounds in extracts prepared from many types of solid waste matrices, soils, and wastewater samples.

This method is used to quantitate most neutral, acidic, and basic organic compounds that are soluble in methylene chloride and capable of being eluted, without derivatization, as sharp peaks from a gas chromatographic fused-silica capillary column coated with a slightly polar silicone.

Table 9 lists “difficult” compounds that may require special treatment when being determined by this method.

Approval of any method modifications is by one of the following laboratory personnel before performing the modification: Area Supervisor, Laboratory Director, or Quality Assurance Officer.

This method is restricted to use by or under the supervision of analysts experienced in the operation of a gas chromatograph/mass spectrometer and in the interpretation of mass spectra. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability (Section 13.2).

2. Summary of Method

The samples are introduced into the GC/MS by injecting 1µL of the sample extract into a gas chromatograph (GC) with a narrow-bore fused-silica capillary column. The GC column is temperature-programmed to separate the analytes, which are then detected with a mass spectrometer (MS) connected to the gas chromatograph.

Analytes eluted from the capillary column are introduced into the mass spectrometer via direct connection. Identification of target analytes is accomplished by comparing their mass spectra with the electron impact spectra of standards run on the same GC/MS system. Quantitation is accomplished by comparing the response of quantitation ion relative to an internal standard using a calibration curve.

2.1 Method Modifications from Reference

None.

3. Reporting Limits

Table 6 lists our routine reporting limits.

4. Interferences

4.1 Only high purity helium is used in the GC system to eliminate this source of possible contamination. The helium (carrier gas) is certified by the gas supplier.

4.2 Preventive instrument maintenance is performed routinely. Section 10.5 details the maintenance steps.

4.3 Glassware must be scrupulously cleaned. This procedure is detailed in the Organic Extraction Glassware Cleaning & Handling SOP/1953.

4.4 Contaminated solvents or reagents are also possible sources of contamination. All solvents used are pesticide grade or equivalent, and reagents are purchased as certified contaminant free.

4.5 Contamination by carry-over can occur whenever high-concentration and low-concentration samples are sequentially analyzed. Whenever an unusually concentrated sample is encountered (concentrations greater than 2x the highest concentration) and the next sample has reportable hits this sample should to be re-analyzed for confirmation based on analyst discretion.

5. Health and Safety

The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound must be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material data handling sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

5.1 Lab coats, safety glasses, and gloves must be worn when handling samples, extracts, standards or solvents.

5.2 All solvent and extract transfers must be handled in the vented bench area in the GC/MS laboratory.

5.3 All stock standards, working standards, and vialed sample extracts must be placed into the waste bucket in the lab for future disposal by the Health and Safety Officer. The container must be labeled properly with hazard warning labels indicating the container contents.

5.4 Flammable solvent bottles must be stored in the flammables cabinet.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection

Aqueous samples are collected in two 1L amber glass jars with teflon-lined lids. For LVI, aqueous samples are collected in two 275mL amber glass jars with teflon-lined lids. Solid samples are collected in 250mL wide-mouth glass jars with teflon-lined lids. All containers are purchased pre-cleaned and certified from commercial vendors.

6.2 Sample Preservation

Both aqueous and solid samples are then preserved by packing in coolers with ice or ice packs, to maintain a temperature of 4 ± 2ºC. Upon receipt at the laboratory, the samples are transferred into sample storage refrigerators to maintain at a temperature of 4 ± 2ºC.

6.3 Sample Handling

Aqueous samples must be extracted within 7 days of sample collection, solid samples within 14 days of collection. Once extracted, the samples must be analyzed within 40 days of the extraction date.

7. Equipment and Supplies

7.1 Gas Chromatograph/Mass Spectrometer System:

7.1.1 Gas Chromatograph, Hewlett Packard 6890 (or equivalent): An analytical system complete with a temperature-programmable gas chromatograph configured for split/splitless-injection and all required accessories, including syringes, analytical columns, and gases. The capillary column is directly coupled to the source.

7.1.2 Column: Rxi-5Sil MS30m x 0.32mm ID, 0.25µm film thickness or column of similar configuration.

7.1.3 Mass Spectrometer, Hewlett Packard 5973 (or equivalent): Scanning from 35 to 500 amu every 1 second or less, using 70 volts (nominal) electron energy in the electron impact ionization mode. The mass spectrometer is capable of producing a mass spectrum for decafluorotriphenylphosphine (DFTPP) which meets the criteria in Table 1 when 1 µL of the GC/MS tuning standard is injected through the GC (50ng of DFTPP).

7.1.4 Data System: A computer system is interfaced to the Mass Spectrometer. The system allows the continuous acquisition and storage on machine-readable media of all mass spectra obtained throughout the duration of the chromatographic program. The computer software allows the analyst to search for any GC/MS data file for ions of specific mass and plot such ion abundances versus time or scan number. *HP ChemServer* software is used for data acquisition and *MSD Chemstation/Enviroquant version E.02.02* is used for data reduction.

7.2 Syringe: 10 µL.

7.3 Volumetric Flasks, Class A: Appropriate sizes with ground-glass stoppers.

7.4 Vials: Glass autosampler vials with polytetrafluoroethylene (PTFE)-lined crimp top caps.

8. Reagents and Standards

8.1 Stock Standard Solutions

Certified stock standard solutions, traceable to NIST, when available, are purchased from commercial vendors. They can be replaced with different standards as long as they contain all target analytes.

All stock standards, lot number, catalog number, expiration date, preparation date and initials are recorded in a logbook. Standards are stored in the refrigerator or freezer. Store away from any light source at 6 °C when not in use (−10 °C is recommended).

Stock standard expire 6 months from the date of preparation or on the earliest expiration date of any of the stock solution used to prepare it.

Please note that the following preparation instructions and stock standards are included for illustration purposes and may be modified as needed (ex. to accommodate standard availability or client requests), however final concentrations for the initial calibration levels shall always follow the example in 8.1.4.

Vendor	Standard	Catalog#	Concentration
Restek			
	8270 Mega Mix	31850	500-1000ug/mL
	Benzoic Acid Mix	31879	2000ug/mL
	Acid Surrogate Mix	31087	10000ug/mL
	B/N Surrogate Mix	31086	5000ug/mL
	Benzaldehyde Standard	33017	2000ug/mL
	Custom AP9 ICAL Standard	571813-FL	2000ug/mL
	Custom ADP Standard	572745-FL	2000ug/mL
	Benzidine Mix	31834	2000ug/mL
	SV Internal Standard Mix	31206	2000ug/mL
	1,4-Dioxane	30287	2000ug/mL
	Custom CLP 04.1 BNA Surrogate Mix	571320-FL	1000ug/mL
Absolute	Aromatic Amines Mix	99410	2000ug/ml
Ultra	Semi-Volatiles GC/MS Tuning Standard	GCM-150-1	1000ug/mL

8.1.1 ABN Stock Standard, 200ug/mL

Use 5mL of each of the following:
- Benzoic Acid Mix
- Benzidine Mix

and use 10mL of each of the following:
- 8270 Mega Mix
- Custom CLP 04.1 BNA Surrogate Mix

Bring up to 50mL volume with DCM.

8.1.2 AP9 Additional Compounds Stock Standard, 200ug/mL

Use 5mL of each of the following:
- Custom AP9 ICAL Standard
- Benzaldehyde Standard

Bring up to 50mL volume with DCM.

8.1.3 ADP Stock Standard, 200ug/ml

Use 5ml of:
- Custom ADP Standard

Bring up to 50mL volume with DCM.

8.1.4 Calibration Standard

A minimum of 5 calibration standards must be included for each analyte:

Calibration Curve Levels	
Level	Concentration ug/mL
1	1.0
2	2.0
3	3.0
4	5.0
5	10
6	20
7	50
8	100
9	150
10	200

LVI Calibration Curve Levels	
Level	Concentration ug/mL
1	0.2
2	0.4
3	1.0
4	2.0
5	3.0
6	5.0
7	10
8	15
9	35
10	50

*LVI- Low Volume Initiative

8.2 Internal Standard Solution

The internal standards are:

1,4-dichlorobenzene-d_4
naphthalene-d_8
acenaphthene-d_{10}
phenanthrene-d_{10}
chrysene-d_{12}
perylene-d_{12}

Each 500µL of standards, blank and sample extracts are spiked with 10µL of SV Internal Standard Mix, resulting in a concentration of 40ng/ µL.

For the LVI method, a 1:10 dilution is made of the Internal Standard Stock Solution. 500µL of standards, blank and sample extracts are spiked with 10µL of this preparation, resulting in a concentration of 4ng/ µL.

8.3 GC/MS Tuning Standard

The tuning standard is a methylene chloride solution containing 50ng/µL of decafluorotriphenylphosphine (DFTPP). The standard also contains 50ng/µL each of 4,4'DDT, pentachlorophenol, and benzidine to verify injection port inertness and GC column performance.

Prepare the GC/MS Tuning Standard with 25µL GCM-150 and 475µL Dichloromethane.

8.4 Surrogate Spiking Solution

8.4.1 Extraction Surrogate Preparation

In a 1000mL volumetric flask, add 5ml of 31086 and 31087. Bring up to volume with Acetone. The final concentration is 50µg/mL for the acid surrogates and 25µg/mL for the B/N surrogates.

8.4.2 LVI Extraction Surrogate Preparation

The LVI surrogate is a 10 fold dilution of the surrogate solution prepared in 8.4.1. For example, to make 200mL of LVI surrogate, add 20mL of 8.4.1 to a 200mL volumetric flask

and fill to volume with Acetone. The resulting surrogate concentration is 5µg/mL for the acid surrogates and 2.5µg/mL for the B/N surrogates.

8.5 Spike Solution (LCS, MS, MSD)

Spike Solution Preparation

ABN SPK1:
In a 500ml volumetric flask, add 20ml of 8270 Mega Mix #31850, 10ml of Benzoic Acid Mix #31879, 10ml Custom AP9 ICAL Standard #571813-FL and 10ml Benzaldehyde Standard #33017. Bring up to volume with Acetone. The final concentration is 40µg/ml.

Note: the LVI ABN SPK1 is prepared by making an 8 fold dilution of the 40µg/ml ABN SPK (in acetone), resulting in a 5µg/ml LVI ABN SPK1.

ABN SPK2:
In a 500ml volumetric flask, add 10ml Benzidine Mix #31834 and 10mL Custom ADP Standard #572945-FL. Bring up to volume with Acetone. The final concentration is 40µg/ml.

Note: the LVI ABN SPK2 is prepared by making an 8 fold dilution of the 40µg/ml ABN SPK (in acetone), resulting in a 5µg/ml LVI ABN SPK2.

8.6 Dichloromethane (DCM): Pesticide quality.

8.7 Acetone: Pesticide quality.

9. Quality Control

9.1 Blank(s)

Extraction blanks are performed with each extraction batch of 20 or less samples. The extraction blank must not contain any of the reportable analytes above the reporting limit. Corrective actions:

- No corrective action required if concentration of contaminant in sample is >10x concentration in blank or if contaminant not detected in sample

- If the blank have reportable hits and re-extraction could not be performed due to lack of additional sample volume, the sample results are reported and qualified with “B” flag for any associated samples that concentration is less than 10x the blank concentration

For NJ regulatory work the method blank must have all the target analytes less than RL except for Phthalates which must be less than 5x of the RL. Sample results are qualified with “B” flag for analytes observed in the blank greater than RL and the Phthalates observed in the blank greater than 5x RL

The surrogate recoveries must also be within the acceptance criteria listed in Table 2. If surrogate acceptance criteria are exceeded, the extraction batch must be evaluated to determine if re-extraction or re-analysis is necessary.

9.2 Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS / LCSD)

A Laboratory Control Sample/Laboratory Control Sample Duplicate pair (LCS/LCSD) are extracted and analyzed with each analytical batch of 20 or fewer samples.

The LCS/LCSD acceptance criteria are based the performance standard control limits. These performance standards are based on commonly used state programs RCP,MCP etc. See table 3. Less than 10% of total compounds may be outside of control limits provided that recoveries are >10%. Note: this does not apply to difficult analytes listed in Table 9 which may be accepted at recoveries <10. If >10% of analytes are recovered above control limits, this is deemed acceptable as long as the analytes in question are not detected in associated samples.

If these criteria are not met, the entire batch is re-extracted. If re-extraction is not possible, due to insufficient sample or holding time exceedance, the analyst must write up the failure on a narrative sheet for inclusion in the client report.

9.3 Initial Calibration Verification (ICV)

Refer to Section 10.2.7.

9.4 Continuing Calibration Verification (CCV)

Refer to Section 10.4.

9.5 Matrix Spike and Matrix Spike Duplicate (MS / MSD)

A matrix spike/matrix spike duplicate pair is extracted and analyzed for each batch of 20 or fewer samples per client request. The MS/MSD acceptance criteria are based on performance standards. See table 3 for individual control limits. If the recovery criteria are not met, but are met in the LCS/LCSD, this is noted on a narrative sheet for inclusion in the client report.

9.6 Laboratory Duplicate

Not applicable.

9.7 Method-specific Quality Control Samples

9.7.1 Surrogates

All extracted samples and associated QC are spiked with surrogates. The acceptable surrogate recovery limits are listed in Table 2.

Corrective action: Up to one surrogate can be out in each fraction (Acid and Base/Neutral) but not less than 10% recovery, before any corrective action is necessary. Otherwise, analysis must be repeated once to see if an analytical error has occurred. If the % recovery still exceeds the control limits the sample must be re-extracted and re-analyzed to confirm sample matrix. If matrix effect is confirmed, this must be noted on a narrative sheet for inclusion in the client report.

Re-extraction is not required if surrogate recoveries are high and target analytes are not detected in the sample.

9.7.2 Internal Standards

If the area for any of the internal standards in the samples changes by a factor of two (-50% to +100%) from that in the CCV, the mass spectrometer must be inspected for malfunctions and corrections must be made, as appropriate. When corrections are made, reanalysis of samples analyzed while the system was malfunctioning is required.

9.8 Method Sequence

In a 12-hour period, the typical analytical sequence is:

- Degradation Check
- DFTPP
- Continuing or Daily Standards (1 – 3)*
  (1) ABN 50 ppm
  (2) AP9 50 ppm
  (3) ADP 50 ppm
- Method/Instrument Blank
- Samples
- QC (as required)

***Additional Continuing standards may be run at the analyst's discretion or by client request.**

10. Procedure

10.1 Equipment Set-up

10.1.1 GC/MS Operating Conditions:

Typical GC/MS operating conditions are listed below, but may be altered as long as method performance criteria are met.

Mass range:	35 – 500 amu
Scan time:	3.15 second / scan
Initial temperature:	50°C, hold for 1.5 minutes
Temperature program:	28°C/minute to 250°C then 9°C/minute to 320°C
Final temperature:	320°C for 1.50 min
Injector temperature:	300°C
Transfer line temperature:	280°C
Source temperature:	230ºC
Injector:	split ratio 5:1; 11.7mL/min
Injection volume:	1µL
Carrier gas:	helium at 523 cm/second (2.0 mL/min) constant flow

GC/MS Operating Conditions for LVI method:

Mass range:	35 – 550 amu
Scan time:	3.15 second / scan
Initial temperature:	45°C, hold for 4 minutes
Temperature program:	25°C/minute to 250°C then 20°C/minute to 320°C
Final temperature:	320°C for 4.3 min
Injector temperature:	270°C
Transfer line temperature:	280°C
Source temperature:	320ºC
Injector:	split ratio 5:1; 8.57mL/min
Injection volume:	2µL
Carrier gas:	helium at 1.7148mL/min) constant flow

10.1.2 GC/MS Tune:

At the beginning of every 12 hour sequence, analyze DFTPP tuning solution (Section 8.3).

The resultant mass spectrum for DFTPP must meet the criteria given in Table 1 before sample analysis begins. The mass spectrum of DFTPP should be acquired in the following manner:

(1) Three scans (the peak apex scan, the scan immediately preceding the apex and the scan immediately following the apex) are acquired and averaged.
(2) Background subtraction is performed using a single scan of no more than 20 scans prior to the elution of DFTPP.

The GC/MS tuning standard is also used to assess GC column performance and injection port inertness. Degradation of DDT to DDE and DDD must not exceed 20%. Benzidine and pentachlorophenol must be present at their normal responses and no peak tailing must be visible.

The tailing factor for benzidine and pentachlorophenol must be calculated in every DFTPP run. (See Table 4)

If degradation is excessive and/or poor chromatography is noted, the system needs maintenance (see Section 10.5).

10.2 Initial Calibration

10.2.1 Prepare calibration standards for all target analytes at a minimum of five concentration levels as specified in Section 8.1.4.

10.2.2 Add 10µL of Internal Standard to each calibration standard directly into the autosampler vial containing 500µL of standard. Analyze each calibration standard under the conditions specified in Section 10.1.1.

10.2.3 Record the calibration standard, unique lab identifier code (lot), concentration, and analyst's initials in the analytical sequence list.

10.2.4 In each standard, calculate the response factor (RF) for each analyte, the average RF, and the relative standard deviation (RSD) of the RFs, using the Enviroquant data processing software. The calculations are performed automatically, using the formulae listed in Alpha's Quality Manual.

It is recommended that a minimum response factor for the most common target analytes, as noted in Table 8, be demonstrated for each individual calibration level as a means to ensure that these compounds are behaving as expected. In addition, meeting the minimum response factor criteria for the lowest calibration standard is critical in establishing and demonstrating the desired sensitivity.

10.2.5 Initial Calibration %RSD Criteria:

For all analytes, the RSD must be ≤ 20% for the mean response factor to be used for sample quantitation.

If the RSD for any target analyte exceeds 20%, the fit must be ≥0.99 quadratic or ≥ 0.995 linear fit for all target analytes. A minimum of 5 levels are required for a linear calibration model and a minimum of 6 levels are required for a quadratic calibration model. When calculating calibration using the linear regression model, a quantitation check must be performed on the lowest calibration point, or the point that corresponds to that compound's established reporting limit.
For RCP, the RSD must be ≤ 15% for the mean response factor to be used for sample quantitation

Percent Relative Error (%RE): For linear and quadratic fit compounds, the %RE must be calculated for the standard at or near the midpoint and at the lowest level of the initial calibration. The %RE between the calculated and expected concentration of an analyte must be ≤ 30%, otherwise recalibration is necessary.

10.2.6 Evaluation of Retention Times:

The relative retention time (RRT) of each target analyte in each calibration standard should agree within 0.06 RRT units.

10.2.7 Initial Calibration Verification (Second Source Verification)

10.2.7.1 The initial calibration (Section 10.2) for each compound of interest must be verified prior to sample analysis. This is accomplished by analyzing second source calibration standards at a concentration near the midpoint concentration for the calibrating range of the GC/MS.

10.2.7.2 Analyze the standards and calculate the % Difference for each analyte according to the formula in Alpha's Quality Manual.

If the % Difference for each analyte is ± 30%, then the calibration is assumed to be valid. If this criterion is not met, then corrective action must be taken prior to the analysis.

For RCP, if the % Difference for each analyte is ± 20%, then the calibration is assumed to be valid. If this criterion is not met, then corrective action must be taken prior to the analysis.

10.2.7.3 In cases where compounds fail (greater than 30% difference), they may still be reported as non-detects.

10.2.7.4 Once the calibration curve is accepted and prior to processing any samples, the analyst must demonstrate through the analysis of a Method Blank or Instrument Blank that equipment and reagents are free from contaminants and interferences. If a peak is found in the blank that would prevent the identification or bias the measurement of an analyte, the analyst should determine the source of the contaminant peak and eliminate it, if possible. Blank are generally considered to be acceptable if target analyte concentration are less than one half the LLOQ or are less than project specific requirements. Blanks may contain analyte concentrations are greater than acceptance limits if the associated samples in the batch are unaffected.

10.3 Equipment Operation and Sample Processing

10.3.1 GC/MS Analysis of Samples

10.3.1.1 Allow the sample extracts to warm to room temperature.

10.3.1.2 Transfer all of the sample extract to a 1.5mL vial. Remove 500µL of sample extract to another vial, and add 10µL of the internal standard solution (Section 8.2).

10.3.1.3 The autosampler is programmed to inject 1µL aliquot of the sample extract into the GC/MS system, using the same instrument conditions that were used for calibration. The injection volume of the sample must be the same as the volume used for the calibration standard.

10.3.1.4 If the response of any quantitation ion exceeds the initial calibration range of the GC/MS system, the sample extract must be diluted and reanalyzed.

10.3.2 Qualitative Identification

Perform first level data review. Obtain the primary m/z (Table 5) masses for each parameter of interest. The following criteria must be met to make qualitative identification:

- Compare the background subtracted mass spectra for the sample to the reference spectra. The characteristic masses of each parameter of interest must maximize in the same or within one scan of each other.
- The retention time must fall within ± 0.1 minutes of the retention time of the compound in the analytical standard. However, analyst experience must be used in making the qualitative identification.
- The relative peak height of the one characteristic mass must fall within 30% of the relative intensity of the mass in a reference mass spectrum. The reference spectrum is obtained from a standard analyzed on the GC/MS system.

Structural isomers that have very similar mass spectra are identified only if the resolution between authentic isomers in a standard mix is less than 25% of the sum of the two peak heights. Otherwise, structural isomers are identified as isomeric pairs.

10.4 Continuing Calibration

10.4.1 The initial calibration (Section 10.2) for each compound of interest must be verified once every 12 hours prior to sample analysis. This is accomplished by analyzing calibration standards at a concentration near the midpoint concentration for the calibrating range of the GC/MS.

10.4.2 Analyze the standards and calculate the % Difference for each analyte according to the formula in Alpha's Quality Manual.

If the % Difference for each CCV analyte is $\leq$ 20%, then the calibration is assumed to be valid. If the criterion is not met for more than 20% of the compounds then corrective action must be taken.

Due to the large number of analytes present, allowances may be made for a RF that drifts out high, as long as there are no positive hits for that particular analyte in any of the associated samples.

10.4.3 If this criterion is exceeded, inspect the gas chromatographic system to determine the cause and perform whatever maintenance is necessary before verifying calibration and proceeding with sample analysis.

10.4.4 If routine maintenance does not return the instrument performance to meet the QC requirements based on the last initial calibration, then a new initial calibration must be performed.

10.4.5 Internal Standard Retention Time

The retention times of the internal standards in the calibration verification standard is evaluated after data acquisition. If the retention time for any internal standard changes by more than 30 seconds from that in the mid-point standard of the most recent initial calibration, then the chromatographic system must be inspected for malfunctions and corrections must be made, as required. When corrections are made, reanalysis of samples analyzed while the system was malfunctioning is required.

10.4.6 Internal Standard Response

Refer to section 9.7.2

10.5 Preventive Maintenance

When poor sensitivity is observed, replacement of the injector liner and seal may solve the problem. If not, clip approximately 3 – 6 inches from the injector end of the GC column. If the sensitivity does not improve it may be necessary to replace the split line or the injector weldment assembly. If the problem persists, it may be necessary to replace the GC column.

Periodic cleaning (typically twice per year) of the mass spectrometer ion source is required. More frequent source cleaning may be needed, especially if dirty samples are analyzed.

11. Data Evaluation, Calculations and Reporting

When a parameter is identified, the quantitation of that parameter must be based on the integrated abundance of the quantitation characteristic m/z given in Table 5

Calculate the concentration in the sample using the average response factor (RF) from the initial calibration curve according to the formula in Alpha's Quality Manual.

After performing technical data review, validating that all QC criteria have been met and confirming all positive hits, the data report is sent electronically to the LIMS computer for generation of the client report. There are two levels of review of the data in the LIMS system prior to release of data. These reviews must be done by two separate individuals.

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

Holding time exceedence and improper preservation are noted on the nonconformance report form.

Perform instrument maintenance as described throughout this SOP as needed when instrument calibration criteria are not met. Record all maintenance in the instrument logbook.

All batch and sample specific QC criteria outlined in Section 9 are evaluated by the analyst prior to approval of the data. When any QC criteria fail, the cause for the failure must be identified and corrected. This may include instrument recalibration followed by sample reanalysis, sample cleanup, or sample re-extraction. If it is determined that the failure is due to sample matrix effects, a project narrative report is written by the analyst for inclusion in the data report. If there is insufficient sample

volume to perform the re-analysis for confirmation, this is also noted in the narrative and included in the client report.

13. Method Performance

13.1 Detection Limit Study (DL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

The laboratory follows the procedure to determine the DL, LOD, and/or LOQ as outlined in Alpha SOP/1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

Refer to Alpha SOP/1739 for further information regarding IDC/DOC Generation.

13.2.1 Initial (IDC)

The analyst must make an initial, one-time, demonstration of the ability to generate acceptable accuracy and precision with this method, prior to the processing of any samples.

13.2.2 Continuing (DOC)

The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

Refer to Alpha's Chemical Hygiene Plan and Waste Management and Disposal SOP for further pollution prevention and waste management information.

15. Referenced Documents

Chemical Hygiene Plan

Alpha SOP/1732 DL/LOD/LOQ Generation

Alpha SOP/1739 IDC/DOC Generation

Alpha SOP/1729 Waste Management and Disposal SOP

16. Attachments

Table 1: DFTPP Key Ions and Ion Abundance Criteria

Table 2: Acceptable Surrogate Spike Recovery Limits

Table 3A: Acceptable Aqueous QC Limits

Table 3B: Acceptable Soil QC Limits

Table 4: Tailing Factor Calculation

Table 5: Characteristic Ions for Semivolatile Compounds

Table 6: Reported Detection Limits

Table 7: Semivolatile Internal Standards with Corresponding Target Compounds and Surrogates Assigned for Quantitation

Table 8: Recommended Minimum Response Factor Criteria

Table 9: Difficult analytes

TABLE 1

DFTPP KEY IONS AND ION ABUNDANCE CRITERIA

Mass	Ion Abundance Criteria
68	< 2% of mass 69
69	Present
70	< 2% of mass 69
197	< 2% of mass 198
198	Base peak or present
199	5-9% of mass 198
365	> 1% of Base Peak
441	Present but less than 24% mass 442
442	Base peak, or present
443	15-24% of mass 442

TABLE 2

ACCEPTABLE SURROGATE SPIKE RECOVERY LIMITS

Analytical Fraction	Surrogate Compound	Water	Soil/Sediment
BN-8270D	Nitrobenzene-d_5	23-120%	23-120%
BN-8270D	2-Fluorobiphenyl	15-120%	30-120%
BN-8270D	p-Terphenyl-d_{14}	41-149%	18-120%
Acid-8270D	Phenol-d_6	10-120%	10-120%
Acid-8270D	2-Fluorophenol	21-120%	25-120%
Acid-8270D	2,4,6-Tribromophenol	10-120%	10-136%

It is allowable for one surrogate from each fraction be outside acceptance criteria, provided a minimum recovery of 10% has been achieved.

TABLE 3A

ACCEPTABLE AQUEOUS QC LIMITS

	STANDARD TARGET COMPOUND LIST (Aqueous)		NEW JERSEY TARGET COMPOUND LIST (Aqueous)		CT TARGET COMPOUND LIST (Aqueous)	
Analyte	**Acceptance Criteria**	**Duplicate RPD**	**Acceptance Criteria**	**Duplicate RPD**	**Acceptance Criteria**	**Duplicate RPD**
1,2,4,5-Tetrachlorobenzene			70-130	20	40-140	20
1,2,4-Trichlorobenzene	39-98	30	70-130	20	40-140	20
1,2-Dichlorobenzene	40-140	30	70-130	20		
1,3-Dichlorobenzene	40-140	30	70-130	20		
1,3-Dinitrobenzene	15-130	30				
1,4-Dichlorobenzene	36-97	30	70-130	20		
1-Methylnaphthalene	41-103	30				
2,3,4,6-Tetrachlorophenol			70-130	20		
2,4,5-Trichlorophenol	30-130	30	70-130	20	30-130	20
2,4,6-Trichlorophenol	30-130	30	70-130	20	30-130	20
2,4-Dichlorophenol	30-130	30	70-130	20	30-130	20
2,4-Dimethylphenol	30-130	30	70-130	20	30-130	20
2,4- Dimethylaniline	40-140	30	70-130	20		
3,4- Dimethylaniline	40-140	30	70-130	20		
2,3- Dimethylaniline	40-140	30	70-130	20		
2,4,5-Dimethylaniline	40-140	30	70-130	20		
4-Chlorotoluidine	40-140	30	70-130	20		
2-Ethylaniline	40-140	30	70-130	20		
O-toluidine	40-140	30	70-130	20		
2-Napthylamine	40-140	30	70-130	20		
2,4-Dinitrophenol	20-130	30	20-130	20	30-130	20
2,4-Dinitrotoluene	24-96	30	70-130	20	40-140	20
2,6-Dinitrotoluene	40-140	30	70-130	20	40-140	20
2-Chloronaphthalene	40-140	30	70-130	20	40-140	20
2-Chlorophenol	27-123	30	70-130	20	30-130	20
2-Methylnaphthalene	40-140	30	70-130	20	40-140	20
2-Methylphenol	30-130	30	70-130	20	30-130	20
2-Nitroaniline	52-143	30	70-130	20	40-140	20
2-Nitrophenol	30-130	30	70-130	20	30-130	20
3,3'-Dichlorobenzidine	40-140	30	70-130	20	40-140	20
3,3'-Dimethylbenzidine			20-160	20		
3-Methylphenol/4-Methylphenol	30-130	30	20-160	20	30-130	20
3-Nitroaniline	25-145	30	70-130	20	40-140	20
4,6-Dinitro-o-cresol	20-164	30	70-130	20	30-130	20
4-Bromophenyl phenyl ether	40-140	30	70-130	20	40-140	20
4-Chloroaniline	40-140	30	20-160	20	40-140	20
4-Chlorophenyl phenyl ether	40-140	30	70-130	20	40-140	20
4-Nitroaniline	51-143	30	70-130	20	40-140	20
4-Nitrophenol	10-80	30	20-160	20	30-130	20
Acenaphthene	37-111	30	70-130	20	40-140	20
Acenaphthylene	45-123	30	70-130	20	40-140	20

	STANDARD TARGET COMPOUND LIST (Aqueous)		NEW JERSEY TARGET COMPOUND LIST (Aqueous)		CT TARGET COMPOUND LIST (Aqueous)	
Analyte	**Acceptance Criteria**	**Duplicate RPD**	**Acceptance Criteria**	**Duplicate RPD**	**Acceptance Criteria**	**Duplicate RPD**
Acetophenone	39-129	30	70-130	20		
Aniline	40-140	30	20-160	20	40-140	20
Anthracene	40-140	30	70-130	20	40-140	20
Atrazine			70-130	20		
Azobenzene	40-140	30	70-130	20		
Benzaldehyde			20-160	20		
Benzidine	10-75	30	20-160	20		
Benzo(a)anthracene	40-140	30	70-130	20	40-140	20
Benzo(a)pyrene	40-140	30	70-130	20	40-140	20
Benzo(b)fluoranthene	40-140	30	70-130	20	40-140	20
Benzo(ghi)perylene	40-140	30	70-130	20	40-140	20
Benzo(k)fluoranthene	40-140	30	70-130	20	40-140	20
Benzoic Acid	10-164	30	20-160	20		
Benzyl Alcohol	26-116	30	20-160	20		
Biphenyl	40-140	30	70-130	20		
Bis(2-chloroethoxy)methane	40-140	30	70-130	20	40-140	20
Bis(2-chloroethyl)ether	40-140	30	70-130	20	40-140	20
Bis(2-chloroisopropyl)ether	40-140	30	70-130	20	40-140	20
Bis(2-Ethylhexyl)phthalate	40-140	30	70-130	20	40-140	20
Butyl benzyl phthalate	40-140	30	70-130	20	40-140	20
Caprolactam			20-160	20		
Carbazole	55-144	30	70-130	20	40-140	20
Chrysene	40-140	30	70-130	20	40-140	20
Dibenzo(a,h)anthracene	40-140	30	70-130	20	40-140	20
Dibenzofuran	40-140	30	70-130	20	40-140	20
Diethyl phthalate	40-140	30	70-130	20	40-140	20
Dimethyl phthalate	40-140	30	70-130	20	40-140	20
Di-n-butylphthalate	40-140	30	70-130	20	40-140	20
Di-n-octylphthalate	40-140	30	70-130	20	40-140	20
Fluoranthene	40-140	30	70-130	20	40-140	20
Fluorene	40-140	30	70-130	20	40-140	20
Hexachlorobenzene	40-140	30	70-130	20	40-140	20
Hexachlorobutadiene	40-140	30	70-130	20	40-140	20
Hexachlorocyclopentadiene	40-140	30	20-160	20	40-140	20
Hexachloroethane	40-140	30	20-160	20	40-140	20
Indeno(1,2,3-cd)Pyrene	40-140	30	70-130	20	40-140	20
Isophorone	40-140	30	70-130	20	40-140	20
Naphthalene	40-140	30	70-130	20	40-140	20
Nitrobenzene	40-140	30	70-130	20	40-140	20
NitrosoDiPhenylAmine(NDPA)/ Diphenylamine (DPA)	40-140	30	70-130	20	40-140	20
n-Nitrosodimethylamine	22-74	30	20-160	20		
n-Nitrosodi-n-propylamine	29-132	30	70-130	20	40-140	20
P-Chloro-M-Cresol	23-97	30	70-130	20	30-130	20
Pentachlorophenol	9-103	30	20-160	20	30-130	20
Pentachloronitrobenzene					40-140	20

	STANDARD TARGET COMPOUND LIST (Aqueous)		NEW JERSEY TARGET COMPOUND LIST (Aqueous)		CT TARGET COMPOUND LIST (Aqueous)	
Analyte	**Acceptance Criteria**	**Duplicate RPD**	**Acceptance Criteria**	**Duplicate RPD**	**Acceptance Criteria**	**Duplicate RPD**
Phenanthrene	40-140	30	70-130	20	40-140	20
Phenol	12-110	30	20-160	20	30-130	20
Pyrene	26-127	30	70-130	20	40-140	20
Pyridine	10-66	30			40-140	20
2-Fluorophenol	*21-120*		*15-110*		*15-110*	
Phenol-d6	*10-120*		*15-110*		*15-110*	
Nitrobenzene-d5	*23-120*		*30-130*		*30-130*	
2-Fluorobiphenyl	*15-120*		*30-130*		*30-130*	
2,4,6-Tribromophenol	*10-120*		*15-110*		*15-110*	
4-Terphenyl-d14	*41-149*		*30-130*		*30-130*	

TABLE 3B

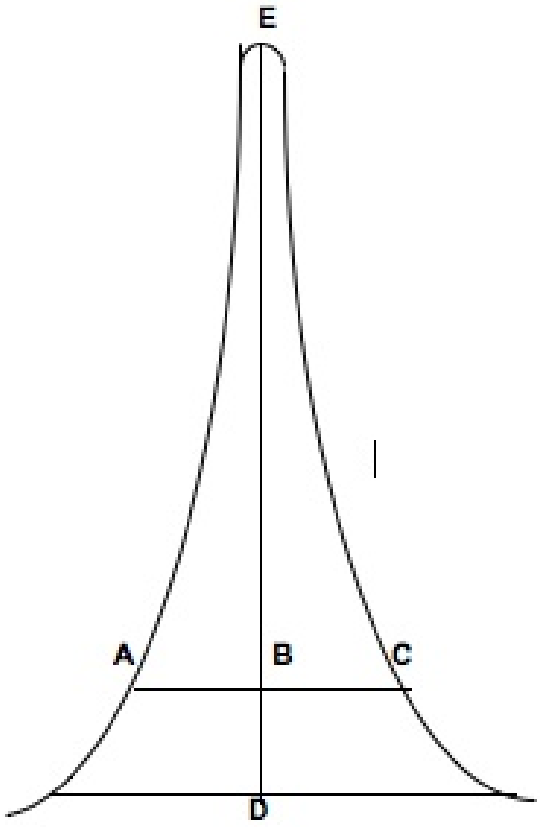
ACCEPTABLE SOIL QC LIMITS

	STANDARD TARGET COMPOUND LIST (Soil)		NEW JERSEY TARGET COMPOUND LIST (Soil)		CT TARGET COMPOUND LIST (Soil)	
Analyte	**Acceptance Criteria**	**Duplicate RPD**	**Acceptance Criteria**	**Duplicate RPD**	**Acceptance Criteria**	**Duplicate RPD**
1,2,4,5-Tetrachlorobenzene	40-117	50	70-130	30	40-140	30
1,2,4-Trichlorobenzene	38-107	50	70-130	30	40-140	30
1,2-Dichlorobenzene	40-140	50	70-130	30		
1,3-Dichlorobenzene	40-140	50	70-130	30		
1,3-Dinitrobenzene	40-140	50				
1,4-Dichlorobenzene	28-104	50	70-130	30		
1-Methylnaphthalene	26-130	50				
2,3,4,6-Tetrachlorophenol	40-140	50	70-130	30		
2,4,5-Trichlorophenol	30-130	50	70-130	30	30-130	30
2,4,6-Trichlorophenol	30-130	50	70-130	30	30-130	30
2,4-Dichlorophenol	30-130	50	70-130	30	30-130	30
2,4-Dimethylphenol	30-130	50	70-130	30	30-130	30
2,4-Dinitrophenol	4-130	50	20-160	30	30-130	30
2,4-Dinitrotoluene	28-89	50	70-130	30	40-140	30
2,6-Dinitrotoluene	40-140	50	70-130	30	40-140	30
2-Chloroaniline	30-130	50				
2-Chloronaphthalene	40-140	50	70-130	30	40-140	30
2-Chlorophenol	25-102	50	70-130	30	30-130	30
2-Methylnaphthalene	40-140	50	70-130	30	40-140	30
2-Methylphenol	30-130.	50	70-130	30	30-130	30
2-Nitroaniline	47-134	50	70-130	30	40-140	30
2-Nitrophenol	30-130	50	70-130	30	30-130	30
3,3'-Dichlorobenzidine	40-140	50	70-130	30	40-140	30
3,3'-Dimethylbenzidine	15-115	50				
3-Methylphenol/4-Methylphenol	30-130	50	20-160	30	30-130	30
3-Nitroaniline	26-129	50	70-130	30	40-140	30
4,6-Dinitro-o-cresol	10-130	50	70-130	30	30-130	30
4-Bromophenyl phenyl ether	40-140	50	70-130	30	40-140	30
4-Chloroaniline	40-140	50	20-160	30	40-140	30
4-Chlorophenyl phenyl ether	40-140	50	70-130	30	40-140	30
4-Nitroaniline	41-125	50	70-130	30	40-140	30
4-Nitrophenol	11-114	50	20-160	30	30-130	30
Acenaphthene	31-137	50	70-130	30	40-140	30

	STANDARD TARGET COMPOUND LIST (Soil)		NEW JERSEY TARGET COMPOUND LIST (Soil)		CT TARGET COMPOUND LIST (Soil)	
Analyte	**Acceptance Criteria**	**Duplicate RPD**	**Acceptance Criteria**	**Duplicate RPD**	**Acceptance Criteria**	**Duplicate RPD**
Acenaphthylene	40-140	50	70-130	30	40-140	30
Acetophenone	14-144	50	70-130	30	40-140	30
Aniline	40-140	50	20-160	30	40-140	30
Anthracene	40-140	50	70-130	30	40-140	30
Atrazine	40-140	50	70-130	30		
Azobenzene	40-140	50	70-130	30		
Benzaldehyde	40-140	50	20-160	30		
Benzidine	10-66	50	20-160	30		
Benzo(a)anthracene	40-140	50	70-130	30	40-140	30
Benzo(a)pyrene	40-140	50	70-130	30	40-140	30
Benzo(b)fluoranthene	40-140	50	70-130	30	40-140	30
Benzo(e)pyrene	40-140	50				
Benzo(ghi)perylene	40-140	50	70-130	30	40-140	30
Benzo(k)fluoranthene	40-140	50	70-130	30	40-140	30
Benzoic Acid	10-110	50	20-160	30		
Benzyl Alcohol	40-140	50	20-160	30		
Biphenyl	37-127	50	70-130	30		
Bis(2-chloroethoxy)methane	40-117	50	70-130	30	40-140	30
Bis(2-chloroethyl)ether	40-140	50	70-130	30	40-140	30
Bis(2-chloroisopropyl)ether	40-140	50	70-130	30	40-140	30
Bis(2-Ethylhexyl)phthalate	40-140	50	70-130	30	40-140	30
Butyl benzyl phthalate	40-140	50	70-130	30	40-140	30
Caprolactam	15-130	50	20-160	30		
Carbazole	54-128	50	70-130	30	40-140	30
Chrysene	40-140	50	70-130	30	40-140	30
Dibenzo(a,h)anthracene	40-140	50	70-130	30	40-140	30
Dibenzofuran	40-140	50	70-130	30	40-140	30
Diethyl phthalate	40-140	50	70-130	30	40-140	30
Dimethyl phthalate	40-140	50	70-130	30	40-140	30
Di-n-butylphthalate	40-140	50	70-130	30	40-140	30
Di-n-octylphthalate	40-140	50	70-130	30	40-140	30
Diphenamid	40-140	50				
Fluoranthene	40-140	50	70-130	30	40-140	30
Fluorene	40-140	50	70-130	30	40-140	30
Hexachlorobenzene	40-140	50	70-130	30	40-140	30
Hexachlorobutadiene	40-140	50	70-130	30	40-140	30
Hexachlorocyclopentadiene	40-140	50	20-160	30	40-140	30
Hexachloroethane	40-140	50	20-160	30	40-140	30
Indeno(1,2,3-cd)Pyrene	40-140	50	70-130	30	40-140	30
Isophorone	40-140	50	70-130	30	40-140	30

	STANDARD TARGET COMPOUND LIST (Soil)		NEW JERSEY TARGET COMPOUND LIST (Soil)		CT TARGET COMPOUND LIST (Soil)	
Analyte	**Acceptance Criteria**	**Duplicate RPD**	**Acceptance Criteria**	**Duplicate RPD**	**Acceptance Criteria**	**Duplicate RPD**
Naphthalene	40-140	50	70-130	30	40-140	30
Nitrobenzene	40-140	50	70-130	30	40-140	30
NitrosoDiPhenylAmine(NDPA)/ Diphenylamine (DPA)	36-157	50	70-130	30	40-140	30
n-Nitrosodimethylamine	22-100	50	20-160	30		
n-Nitrosodi-n-propylamine	32-121	50	70-130	30	40-140	30
Parathion, ethyl	40-140	50	20-160	30		
P-Chloro-M-Cresol	26-103	50	70-130	30	30-130	30
Pentachloronitrobenzene	42-153	50			40-140	30
Pentachlorophenol	17-109	50	20-160	30	30-130	30
Phenanthrene	40-140	50	70-130	30	40-140	30
Phenol	26-90	50	20-160	30	30-130	30
Pyrene	35-142	50	70-130	30	40-140	30
Pyridine	10-93	50	20-160	30	40-140	30
Thionazin	40-140	50				
2-Fluorophenol	*25-120*		*30-130*		*30-130*	
Phenol-d6	*10-120*		*30-130*		*30-130*	
Nitrobenzene-d5	*23-120*		*30-130*		*30-130*	
2-Fluorobiphenyl	*30-120*		*30-130*		*30-130*	
2,4,6-Tribromophenol	*10-136*		*30-130*		*30-130*	
4-Terphenyl-d14	*18-120*		*30-130*		*30-130*	

TABLE 4 – Tailing Factor Calculation



Tailing Factor = $\frac{BC}{AB}$

Example calculation:

Peak Height = DE = 100mm
10% Peak Height = BD = 10mm
Peak Width at 10% Peak Height = AC = 23mm

AB = 11mm
BC = 12mm

Therefore: Tailing Factor = $\frac{12}{11}$ = 1.1

Tailing factor for benzidine < 2.0

Tailing factor for pentachlorophenol <2.0

TABLE 5

CHARACTERISTIC IONS FOR SEMIVOLATILE COMPOUNDS

Compound	Primary Ion	Secondary Ion(s)
Acenaphthene	154	153, 152
Acenaphthylene	152	151, 153
Acetophenone	105	71, 51, 120
Aniline	93	66, 65
Anthracene	178	176, 179
Atrazine	200	202, 215
Azobenzene	77	182, 105
Benzaldehyde	105	77
Benzidine	184	92, 185
Benzo(a)anthracene	228	229, 226
Benzo(a)pyrene	252	253, 125
Benzo(b)fluoranthene	252	253, 125
Benzo(g,h,i)perylene	276	138, 277
Benzo(k)fluoranthene	252	253, 125
Benzoic acid	105	122, 77
Benzyl alcohol	79	77,108
Biphenyl	154	153,152
Bis (2-chloroethoxy) methane	93	95, 123
Bis (2-chloroethyl) ether	93	63, 95
Bis (2-chloroisopropyl) ether	45	77, 121
Bis (2-ethylhexyl) phthalate	149	167, 279
4-Bromophenyl phenyl ether	248	250, 141
Butyl Benzyl phthalate	149	91, 206
Caprolactam	55	85, 113
Carbazole	167	168, 166
4-Chloro-3-methylphenol	107	144, 142
2-Chloroaniline	127	129, 65
3-Chloroaniline	65	127, 129
4-Chloroaniline	65	127,129
2-Chloronaphthalene	162	127, 164
4-Chlorophenyl phenyl ether	204	206, 141
2-Chlorophenol	128	64,130
Chrysene	228	226, 229
Dibenzo(a,h)anthracene	278	139, 279
Dibenzofuran	168	139
1,2-Dichlorobenzene	146	148, 111

1,3-Dichlorobenzene	**146**	**148, 111**
1,4-Dichlorobenzene	**146**	**148, 111**
3,3'-Dichlorobenzidine	**252**	**254, 126**
2,4-Dichlorophenol	**162**	**164, 98**
Diethyl phthalate	**149**	**177, 150**

TABLE 5 (continued)

CHARACTERISTIC IONS FOR SEMIVOLATILE COMPOUNDS

Compound	Primary Ion	Secondary Ion(s)
3,3-Dimethylbenzidine	**212**	**211, 213**
Dimethyl phthalate	**163**	**194, 164**
2,4-Dimethylphenol	**107**	**121,122**
Di-n-butyl phthalate	**149**	**150, 104**
Di-n-octyl phthalate	**149**	**167, 43**
4,6-Dinitro-2-methylphenol	**198**	**51, 105**
O-Toluidine	**106**	**107, 77**
2-Ethylaniline	**106**	**121, 77**
2,4-Dimethylaniline	**121**	**120, 106**
2,3-Dimethylaniline	**106**	**121, 120**
3,4- Dimethylaniline	**121**	**120,106**
2,4,5-Trimethylaniline	**120**	**135, 134**
4-Chlorotoluidine	**106**	**141, 140**
2-Napthylamine	**143**	**115, 116**
2,4-Dinitrophenol	**184**	**107,91**
2,4-Dinitrotoluene	**165**	**63, 89**
2,6-Dinitrotoluene	**165**	**63, 89**
Diphenamide	**167**	**72, 165**
1,4-Dioxane	**88**	**58,43**
Ethyl parathion	**109**	**97, 291**
Fluoranthene	**202**	**101, 203**
Fluorene	**166**	**165, 167**
Hexachlorobenzene	**284**	**142, 249**
Hexachlorobutadiene	**225**	**223, 227**
Hexachlorocyclopentadiene	**237**	**235, 272**
Hexachloroethane	**117**	**201, 199**
Indeno(1,2,3-cd)pyrene	**276**	**138, 227**
Isophorone	**82**	**95, 138**
1-Methylnaphthalene	**115**	**141, 142**
2-Methylnaphthalene	**142**	**141**
2-Methylphenol	**108**	**107,90**
3/4-Methylphenol	**108**	**107,90**

Naphthalene	**128**	**129, 127**
2-Nitroaniline	**65**	**92, 138**
3-Nitroaniline	**138**	**92,65**
4-Nitroaniline	**138**	**65, 108, 92, 80, 39**
Nitrobenzene	**77**	**123, 65**

TABLE 5 (continued)

CHARACTERISTIC IONS FOR SEMIVOLATILE COMPOUNDS

Compound	Primary Ion	Secondary Ion(s)
2-Nitrophenol	**139**	**109, 65**
4-Nitrophenol	**65**	**109, 139**
n-Nitrosodimethylamine	**74**	**42,44**
n-Nitrosodi-n-butylamine	**84**	**57, 41, 116, 158**
n-Nitrosodi-n-propylamine	**70**	**42, 101, 130**
n-Nitrosodiphenylamine/Diphenylamine	**169**	**168, 167**
Pentachlorobenzene	**250**	**252, 108, 248, 215, 254**
Pentachloronitrobenzene	**237**	**142, 214, 249, 295, 265**
Pentachlorophenol	**266**	**264, 268**
Phenanthrene	**178**	**179, 176**
Phenol	**94**	**65, 66**
Pyrene	**202**	**200, 203**
Pyridine	**79**	**52**
1,2,4,5-Tetrachlorobenzene	**216**	**214, 179, 108, 143, 218**
2,3,4,6-Tetrachlorophenol	**232**	**131, 230, 166, 234, 168**
m-Toluidine	**106**	**107, 79**
1,2,4-Trichlorobenzene	**180**	**182, 145**
2,4,5-Trichlorophenol	**196**	**200,198**
2,4,6-Trichlorophenol	**196**	**198, 200**
Acenaphthene-d_{10} (IS)	**164**	**162, 160**
Chrysene-d_{12} (IS)	**240**	**120, 236**
1,4-Dichlorobenzene-d_4 (IS)	**152**	**150, 115**
Naphthalene-d_8 (IS)	**136**	**68**
Perylene-d_{12} (IS)	**264**	**260, 265**
Phenanthrene-d_{10} (IS)	**188**	**94, 80**
2-Fluorobiphenyl (Surrogate)	**172**	**171**
2-Fluoroophenol (Surrogate)	**112**	**64**
Nitrobenzene-d_5 (Surrogate)	**82**	**128, 54**
Phenol-d_6 (Surrogate)	**99**	**42, 71**
Terphenyl-d_{14} (Surrogate)	**244**	**122, 212**
2,4,6-Tribromophenol (Surrogate)	**330**	**62,141**

TABLE 6

REPORTED DETECTION LIMITS FOR SEMIVOLATILE ORGANIC COMPOUNDS*

Analyte	RDL (µg/L)	RDL (µg/Kg)
Acenaphthene	2	133.34
Acenaphthylene	2	133.34
Acetophenone	5	333.34
Aniline	2	133.34
Anthracene	2	133.34
Atrazine	10	666.67
Azobenzene	2	500
Benzaldehyde	5	333.34
Benzidine	20	1333.34
Benzo(a)anthracene	2	133.34
Benzo(b)fluoranthene	2	133.34
Benzo(k)fluoranthene	2	133.34
Benzo(ghi)perylene	2	133.34
Benzo(a)pyrene	2	133.34
Benzoic acid	50.0	3333.34
Benzyl alcohol	2	133.34
Biphenyl	2	366.67
Bis(2-chloroethyl)ether	2	133.34
Bis(2-chloroisopropyl)ether	2	133.34
Bis(2-chloroethoxy)methane	5.0	333.34
Bis(2-ethylhexyl)phthalate	3	200
4-Bromophenyl phenyl ether	2	133.34
Butyl benzyl phthalate	5.0	333.34
Caprolactam	10	666.67
Carbazole	2	166.67
2-Chloroaniline	2	na
3-Chloroaniline	10	na
4-Chloroaniline	5	333.34
p-Chloro-m-cresol (4-chloro-3-cresol)	2	133.34
2-Chloronaphthalene	2	133.34
2-Chlorophenol	2	133.34
4-Chlorophenyl phenyl ether	2	133.34
Chrysene	2	133.34
m/p-Methylphenol (3/4-methylphenol)	5.0	333.34
o-Methylphenol (2-methylphenol)	5.0	333.34

Dibenzo(a,h)anthracene	2	133.34
Dibenzofuran	2	133.34
Di-n-butylphthalate	5.0	333.34
1,2-Dichlorobenzene	2	133.34

TABLE 6 (continued)

REPORTED DETECTION LIMITS FOR SEMIVOLATILE ORGANIC COMPOUNDS*

Analyte	RDL (µg/L)	RDL (µg/Kg)
1,3-Dichlorobenzene	2	133.34
1,3-Dinitrobenzene	2	N/A
1,4-Dichlorobenzene	2	133.34
3,3-Dichlorobenzidine	5	333.34
2,4-Dichlorophenol	5	333.34
O-Toluidine	2	N/A
2-Ethylaniline	2	N/A
2,4-Dimethylaniline	2	N/A
2,3-Dimethylaniline	2	N/A
3,4-Dimetylaniline	2	N/A
2,4,5-Trimethylaniline	2	N/A
4-Chlorotoluidine	2	N/A
2-Napthylamine	2	N/A
2,6-Dichlorophenol	10.0	666.67
Diethyl phthalate	5.0	333.34
3,3-Dimethylbenzidine	4	500
2,4-Dimethylphenol	5	333.34
Dimethyl phthalate	5.0	333.34
4,6-Dinitro-o-cresol	10	666.67
2,4-Dinitrophenol	20	1333.4
2,4-Dinitrotoluene	5.0	333.34
2,6-Dinitrotoluene	5.0	333.34
Di-n-octylphthalate	5.0	333.34
Diphenamide	5	N/A
1,4-Dioxane	5	166.67
Ethyl Parathion	N/A	166.67
Fluoranthene	2	133.34
Fluorene	2	133.34
Hexachlorobenzene	2	133.34
Hexachlorobutadiene	2	133.34
Hexachlorocyclopentadiene	20	1333.34
Hexachloroethane	2	133.34
Indeno(1,2,3-cd)pyrene	2	133.34
Isophorone	5.0	333.34

1-Methylnaphthalene	2	166.67
2-Methylnaphthalene	2	133.34
Naphthalene	2	133.34
2-Nitroaniline	5.0	333.34

TABLE 6 (continued)

REPORTED DETECTION LIMITS FOR SEMIVOLATILE ORGANIC COMPOUNDS*

Analyte	RDL (µg/L)	RDL (µg/Kg)
3-Nitroaniline	5.0	333.34
4-Nitroaniline	5.0	333.34
Nitrobenzene	2	133.34
2-Nitrophenol	10.0	666.67
4-Nitrophenol	10.0	666.67
Nitrosodi-n-butylamine	10.0	666.67
n-Nitrosodimethylamine	2	133.34
n-Nitrosodiphenylamine/Diphenylamine	2	133.34
Nitrosodipiperidine	20.0	2000
n-Nitrosodi-n-propylamine	5.0	333.34
Pentachlorobenzene	20.0	1333.34
Pentachloronitrobenzene	10.0	150
Pentachlorophenol	10.0	666.67
Phenanthrene	2	133.34
Phenol	5.0	333.34
Pyrene	2	133.34
Piridine	5	666.67
1,2,4,5-Tetrachlorobenzene	10	666.67
1,2,4-Trichlorobenzene	5.0	333.34
2,4,5-Trichlorophenol	5.0	333.34
2,4,6-Trichlorophenol	5.0	333.34
2,3,4,6-Tetrachlorophenol	5.0	166.66
m-Toluidine	5	300

*** Note**: Reporting Limits are based on standard 8270 reporting list. RLs may vary for other reporting lists.

Table 7
Semivolatile Internal Standards with Corresponding
Target Compounds and Surrogates Assigned for Quantitation

1,4-dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12	Perylene-d12
O-Toluidine	2-Ethylaniline	2-Naphthylamine	3,3-Dimethylbenzidine	3,3'-Dichlorobenzidine	Benzo(g,h,i)perylene
1,2,4-Trichlorobenzene	2,4-Dimethylaniline	2,3,4,6-Tetrachlorophenol	Anthracene	Benzo(a)Anthracene	Dibenzo(a,h)anthracene
1,2-Dichlorobenzene	3,4-Dimethylaniline	2,3,5,6-Tetrachlorophenol	Benzidine	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene
1,3-Dichlorobenzene	2,3-Dimethylaniline	2,4,6-Tribromophenol, surr	Benzyl butyl phthalate	Benzo(b)fluoranthene	
1,4-Dichlorobenezne	2,4,5-Trimethylaniline	2,4-Dinitrophenol	Carbazole	Benzo(k)fluoranthene	
2,4-Dichlorophenol	4-Chlorotoludine	2,4-Dinitrotoluene	Di-n-Butylphthalate	Bis(2-ethylhexyl) phthalate	
2,4-Dimethylphenol	1,2,4,5-Tetrachlorobenzene	3-Nitroaniline	Diphenamid	Chrysene	
2-Chloroaniline	1,2-Dichlorobenzene	4,6-Dinitro-2-methylphenol	Fluoranthene	Di-n-octylphthalate	
2-Chlorophenol	1,3-Dichlorobenzene	4-Bromophenyl-phenyl ether	n-Octadecane		
2-Fluorophenol, surr	1,4-Diclorobenzene	4-Chlorophenyl-phenyl ether	Parathion		
2-Methylphenol	1-chloror-2-nitrobenzene	4-Nitroaniline	Phenanthrene		
2-Nitrophenol	1-Methylnapthalene	4-Nitrophenol	Pyrene		
3-Methylphenol / 4-Methylphenol	2,4,5-Trichlorphenol	Acenaphthene	Terphenyl-d14, surr		
Acetophenone	2,4,6-Trichlorophenol	Atrazine			
Aniline	2,6-Dichlorophenol	Azobenzene			
Benzaldehyde	2,6-Dinitrotoluene	Dibenzofuran			
Benzyl Alcohol	2-Chloronaphthalene	Dichloran			
Bis(2-chloroethoxy)methane	2-Fluorobiphenyl, surr	Diethyl phthalate			
Bis(2-chloroethyl)ether	2-Methylnaphthalene	Fluorene			

Table 7 (cont.)
Semivolatile Internal Standards with Corresponding
Target Compounds and Surrogates Assigned for Quantitation

1,4-dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12	Perylene-d12
bis(2-Chloroisopropyl)ether	2-Nitroaniline	Hexachlorobenzene			
Hexachloroethane	3-Choloroaniline	NDPA/DPA			
Isophorone	4-Chloro-3-Methylphenol	Pentachloronitrobenzene			
m-Toluidine	4-Chloroaniline	Pentachlorophenol			
n-Decane	Acenaphthylene				
Nitrobenzene	a-Terpineol				
Nitrobenzene-d5, surr	Benzoic Acid				
N-Nitrosodimethylamine	Biphenyl				
N-Nitrosodi-n-propylamine	Caprolactam				
Phenol	Dimethyl Phthalate				
Phenol-d6, surr	Hexachlorobutadiene				
Pyridine 1,4-Dioxane	Hexachlorocyclopentadiene				
Phenol-d6, surr	Naphthalene				

Table 8

Recommended Minimum Response Factor Criteria from Initial and Continuing Calibration Verification Using the Suggested Ions in Table 5

Analyte	MRF
Benzaldehyde	0.010
Phenol	0.800
Bis(2-chloroethyl)ether	0.700
2-Chlorophenol	0.800
2-Methylphenol	0.700
2,2'-Oxybis-(1-chloropropane)	0.010
Acetophenone	0.010
4-Methylphenol	0.600
N-Nitroso-di-n-propylamine	0.500
Hexachloroethane	0.300
Nitrobenzene	0.200
Isophorone	0.400
2-Nitrophenol	0.100
2,4-Dimethylphenol	0.200
Bis(2-chloroethoxy)methane	0.300
2,4-Dichlorophenol	0.200
Naphthalene	0.700
4-Chloroaniline	0.010
Hexachlorobutadiene	0.010
Caprolactam	0.010
4-Chloro-3-methylphenol	0.200
2-Methylnaphthalene	0.400
Hexachlorocyclopentadiene	0.050
2,4,6-Trichlorophenol	0.200
2,4,5-Trichlorophenol	0.200
1,1'-Biphenyl	0.010
2-Chloronaphthalene	0.800
2-Nitroaniline	0.010
Dimethyl phthalate	0.010
2,6-Dinitrotoluene	0.200
Acenaphthylene	0.900
3-Nitroaniline	0.010
Acenaphthene	0.900
2,4-Dinitrophenol	0.010
4-Nitrophenol	0.010
Dibenzofuran	0.800
2,4-Dinitrotoluene	0.200
Diethyl phthalate	0.010
1,2,4,5-Tetrachlorobenzene	0.010

Table 8 (cont.)

Recommended Minimum Response Factor Criteria from Initial and Continuing Calibration Verification Using the Suggested Ions in Table 5

Analyte	MRF
4-Chlorophenyl-phenyl ether	0.400
Fluorene	0.900
4-Nitroaniline	0.010
4,6-Dinitro-2-methylphenol	0.010
4-Bromophenyl-phenyl ether	0.100
N-Nitrosodiphenylamine	0.010
Hexachlorobenzene	0.100
Atrazine	0.010
Pentachlorophenol	0.050
Phenanthrene	0.700
Anthracene	0.700
Carbazole	0.010
Di-n-butyl phthalate	0.010
Fluoranthene	0.600
Pyrene	0.600
Butyl benzyl phthalate	0.010
3,3'-Dichlorobenzidine	0.010
Benzo(a)anthracene	0.800
Chrysene	0.700
Bis-(2-ethylhexyl)phthalate	0.010
Di-n-octyl phthalate	0.010
Benzo(b)fluoranthene	0.700
Benzo(k)fluoranthene	0.700
Benzo(a)pyrene	0.700
Indeno(1,2,3-cd)pyrene	0.500
Dibenz(a,h)anthracene	0.400
Benzo(g,h,i)perylene	0.500
2,3,4,6-Tetrachlorophenol	0.010

Table 9
Difficult analytes

Aniline

Benzaldehyde
Benzidine
Benzoic acid
Benzyl alcohol

Caprolactam
4-Chloroaniline
4-chloro-3-methylphenol (p-chloro-m-cresol)

3,3-Dimethylbenzidine
1,4-Dioxane
Dimethylphthalate
2,4 Dinitrophenol
4,6-dinitro-2-methylphenol (4,6-dinitro-o-cresol)

Hexachlorocyclopentadiene
Hexachloroethane

2-Methylphenol
3-Methylphenol/4-Methylphenol

2-nitroaniline
3-nitroaniline
4-nitroaniline
4-Nitrophenol
Nitrosodiphenylamine and diphenylamine (NDPA/DPA)
n-Nitrosodimethylamine

Parathion
Pentachloronitrobenzene
Pentachlorophenol
Phenol
Pyridine

Total and Amenable Cyanide

Reference: **Method 9010C / 9012B,** SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Revision 2 and Revision 3 2004

SM 4500CN-CEG. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

Method 10-204-00-1-A, Lachat Instruments, 6645 West Mill Road, Milwaukee, WI 53218, 1994.

Method 9014 (Modified). SW-846, Test Methods for Evaluating Solid Waste: Physical / Chemical Methods, EPA SW-846, Update III, 1997

1. Scope and Application

Matrices: This method is applicable to waters, liquids, solids, soils and sludges

Definitions: Refer to Alpha Analytical Quality Manual.

The following SOP is a reflux-distillation procedure used to extract soluble cyanide salts and many insoluble cyanide complexes from wastes and leachates. It is based on the decomposition of nearly all cyanides by a reflux distillation procedure using a strong acid and a magnesium catalyst. Cyanide, in the form of hydrocyanic acid (HCN) is purged from the sample and captured into an alkaline scrubber solution. The concentration of cyanide in the scrubber solution is then determined by flow injection analysis on a Lachat Analyzer.

This method was designed to address the problem of “trace” analyses (<1000ppm). The method may also be used for “minor” (1000ppm – 10,000ppm) and “major” (>10,000ppm) analyses by adapting the appropriate sample dilution. However, the amount of sodium hydroxide in the standards and the sample analyzed must be the same.

The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one or more of the following laboratory personnel before performing the modification: Area Supervisor, Department Supervisor, Laboratory Director, or Quality Assurance Officer.

This method is restricted to use by or under the supervision of analysts experienced in the operation of the Lachat and in the interpretation of Lachat data. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

2. Summary of Method

The cyanide, as hydrocyanic acid (HCN), is released from samples containing cyanide by means of a reflux-distillation operation under acidic conditions and absorbed in a scrubber containing sodium hydroxide solution. The cyanide concentration in the absorbing solution is then determined colorimetrically by Lachat flow injection analysis.

2.1 Method Modifications from Reference

The sample size used is 50mL. The Midi distillation unit has demonstrated the ability to achieve the same RDL using 50mL instead of 500mL sample volume. Refer to EPA Method 335.4.

Modification for Method 9014: An automated determination of cyanide using the Lachat instrument is used instead of manual spectrophotometric determination.

Modification for amenable cyanide: Analysis is not prepped under amber light.

3. Reporting Limits

The Reported Limit for aqueous samples is 0.005mg/L; soil and solid samples is 1mg/Kg

4. Interferences

4.1 Interferences are eliminated or reduced by using the distillation procedure. However, chlorine and sulfide are interferences. Refer to Section 10.1.1.

4.2 High results may be obtained for samples that contain nitrate and/or nitrite. During the distillation, nitrate and nitrite will form nitrous acid, which will react with some organic compounds to form oximes. These compounds once formed will decompose under test conditions to generate HCN. The possibility of interference of nitrate and nitrite is eliminated by pretreatment with sulfamic acid just before distillation. Nitrate and nitrite are interferences when present at levels higher than 10mg/L and in conjunction with certain organic compounds.

4.3 Thiocyanate is reported to be an interference when present at very high levels. Levels of 10mg/L were not found to interfere.

4.4 Fatty acids, detergents, surfactants, and other compounds may cause foaming during the distillation when they are present in high concentrations. Add anti-foaming agent to the sample during the distillation procedure (Section 10.3.1).

4.5 Carbonates and aldehydes are possible interferences.

5. Health and Safety

The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material safety data sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

The following chemicals have the potential to be highly toxic or hazardous. For detailed explanations consult the MSDS:

- Cyanide
- Sulfuric acid
- Pyridine
- Chloramine-T

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection

Samples are collected in plastic or glass containers. All containers must be thoroughly cleaned and rinsed.

Oxidizing agents such as chlorine decompose most cyanides. Testing for chlorine must be done in the field prior to sample preservation.

6.2 Sample Preservation

Prior to preservation, samples must be tested for chlorine (Section 6.1).

Aqueous samples are preserved with 50% sodium hydroxide in the field to a pH $\geq$ 12 at the time of collection.

Samples and distillates are stored in the refrigerator at 4 ±2 °C.

6.3 Sample Shipping

No specific requirements.

6.4 Sample Handling

When properly preserved, cyanide samples are stored for up to 14 days prior to sample preparation steps.

Distillates must be analyzed within 14 days of distillation. Samples must be analyzed within 14 days of receipt.

Note: for MCP-TCN samples must be analyzed within 24h after distillation

7. Equipment and Supplies

7.1 Cyanide Midi Distillation Unit: Lab Crest, BGL or comparable midi distillation unit. With reaction vessels, collection vessels, cold fingers and impingers.

7.2 pH paper: Range 1-14

7.3 Lead Acetate Paper

7.4 Vacuum source

7.5 50mL centrifuge tubes: New, plastic, with caps.

7.6 KI starch paper: Residual Chlorine sensitivity

7.7 Class A volumetric flasks: 25, 50, 100, 500 and 1000mL

7.8 Graduated cylinders: 50mL glass or plastic

7.9 Eppendorf pipettor or pipets: 0.5, 1, 2, and 5mL

7.10 Lachat 8500 Flow Analyzer: Including Quick Chem software, autosampler, pump and accessories.

7.11 Balance: Capable of weighing to 0.0001gram

7.12 Beakers: 100mL

7.13 Chiller

7.14 Stir plate

7.15 Stir bars

7.16 Dilution vials

8. Reagents and Standards

Reagent grade chemicals are used in all tests. Unless otherwise indicated, it is intended that all reagents shall conform to the specifications of the Committee on Analytical Reagents of the American Chemical Society, where such specifications are available. Other grades may be used, provided it is first ascertained that the reagent is of sufficient high purity to permit its use without lessening the accuracy of the determination.

8.1 Standards and Reagents for Distillation

8.1.1 **Reagent Water:** All references to water in this method refer to Deionized Water (DI) from Alpha's water treatment system.

8.1.2 **Ascorbic Acid, $C_6H_8O_6$:** Powder. Store at room temperature. Expires upon manufacturer's specified date.

8.1.3 **Sodium hydroxide solution (1N), NaOH:** In a 1L volumetric flask, dissolve 40g of NaOH. Bring to volume with DI water. Store at room temperature. Expires one month from date of preparation.

8.1.4 **Sulfamic acid (0.4N), H_2NSO_3H:** In a 1L volumetric flask, dissolve 40g H_2NSO_3H. Bring to volume with DI water. Store at room temperature. Expires 6 months from date of preparation.

8.1.5 **Sulfuric acid (1:1), H_2SO_4:** To a 1L volumetric flask, add 500mL DI water. Slowly and carefully add 500mL of concentrated H_2SO_4. Store at room temperature. Expires one month from date of preparation.

8.1.6 **Magnesium chloride solution (2.5M), $MgCl_2 \cdot 6H_2O$:** In a 1L volumetric flask, dissolve 510g of $MgCl_2 \cdot 6H_2O$. Bring to volume with DI water. Store at room temperature. Expires 6 months from date of preparation.

8.1.7 **LCS, 1000ppm cyanide stock solution:** Commercially available standard with a certificate of analysis and from a different source than the Lachat calibration standards. Purchased from Ricca, Catalog # 2543-32. Store refrigerated at 4 ± 2 °C. Expires upon manufacturer's specified date.

8.1.8 **LCS 10ppm cyanide working solution:** Pipet 1mL of 1000ppm cyanide stock solution (Section 8.1.7) into a 100mL volumetric flask. Add 10mL of 1N NaOH (Section 8.1.3). Bring to volume with DI water. Prepare each day of use.

8.1.8.1 **This can also be made by taking 5mL of 10ppm (Section 8.1.8) up to 500mL with 0.**1N NaOH. This would be distilled as a whole volume (50mL). Prepare daily.

8.1.9 1000ppm Stock Spiking Solution: 1000ppm cyanide standard available commercially with a certificate of analysis. This is from a different source than the LCS (8.1.7). Purchased from LabChem Inc., Catalog # LC13545. Store refrigerated at 4 ± 2 °C. Expires upon manufacturer's specified date.

8.1.10 10ppm Working Cyanide Spiking Solution: Pipet 1mL of the 1000ppm Stock Spiking Solution (Section 8.1.9) into a 100mL volumetric flask. Add 10mL 1N NaOH (Section 8.1.3). Bring to volume with DI water. Prepare fresh each day of use.**pH 4 Acetate Buffer solution:** In a 500mL volumetric flask, dissolve 410g of sodium acetate trihydrate. Bring to volume with DI water. Adjust to pH of 4.5 with acetic acid (Section 8.1.13). Store at room temperature. Expires 6 months from date of preparation.

8.1.11 Lead Carbonate Powder, [Pb (CO3)]

8.1.12 LCS 0.5 ppm Cyanide Working Solution: Pipet 5mL of the 10ppm Working Cyanide Spiking Solution (Section 8.1.10) into a 100mL volumetric flask . Add 1mL of 10N NaOH (Section 8.1.16). Bring to volume with DI water. Prepare each day of use.

8.1.13 Concentrated Acetic Acid: Store at room temperature. Expires upon manufacturer's specified date.

8.1.14 Ottawa Sand or Boiling chips

8.1.15 Sodium hydroxide solution (10N), NaOH: In a 1L volumetric flask, dissolve 400g of NaOH. Bring to volume with DI water. Store at room temperature. Expires 6 months from date of preparation.

8.1.16 Sodium hydroxide solution (0.1N), NaOH: In a 10L carboy mix 100mL of 10N NaOH. Bring to volume with DI water. Store at room temperature. Expires daily.

8.1.17 Total Cyanide SRM: ERA catalog # 541. Store in room temperature. Expires upon manufacturer's specified date.

8.1.18 Calcium Hypochlorite Solution: Dissolve 5g Ca(OCl)2 in 100mL Deionized water. Store in an amber colored bottle in the dark. Expires monthly.

8.2 Standards and Reagents for Lachat Analysis

8.2.1 Helium gas: To prevent bubble formation, degas all solutions except the standards with helium. Use He at 140kPa (20 lb/in^2) through a helium degassing tube (Lachat part number 50100). Bubble He vigorously through the solution for one minute.

8.2.2 Reagent 1. Carrier, 0.1N Sodium Hydroxide: In a 1L plastic container add 10mL of 10N NaOH (Section 8.1.16). Bring to 1L volume with DI. Store at room temperature. Prepare fresh bi-weekly.

8.2.3 Reagent 2. Acetate Buffer, 2.68M: In a 1L volumetric flask, dissolve 163g spdium acetate trihydrate (acetic acid, sodium salt trihydrate, $CH_3CO_2NA•H_2O$) in approximately 800mL of water. Add 40mL of acetic acid to solution. Dilute to the mark and invert to mix. Store at room temperature. Prepare fresh monthly.

8.2.4 Reagent 3. Chloramine-T: Dissolve 2.0g chloramine-T hydrate in 500mL DI. Prepare fresh daily.

8.2.5 Reagent 4. Pyridine-Barbituric Acid Reagent: Under a fume hood, place 15g barbituric acid in a 1L beaker and add 100mL water, rinsing down the sides of the beaker to wet the barbituric acid. Add 75mL pyridine (C_5H_5N) while stirring and mix

until the barbituric acid dissolves. Add the 15mL concentrated hydrochloric acid (12M HCl) and mix. Store at room temperature. Prepare fresh weekly.

8.2.6 **0.5ppm Calibration standard:** Pipet 5mL of the 10ppm working cyanide spiking solution (Section 8.1.10) into a 100mL volumetric flask. Bring to volume with 0.1N NaOH. Prepare each day of use.

8.2.7 **0.2ppm Calibration standard:** Pipet 2mL of the 10ppm working cyanide spiking solution (Section 8.1.10) into a 100mL volumetric flask. Bring to volume with 0.1N NaOH. Prepare each day of use.

8.2.8 **0.1ppm Calibration standard:** Pipet 1mL of the 10ppm working cyanide spiking solution (Section 8.1.10) into a 100mL volumetric flask. Bring to volume with 0.1N NaOH. Prepare each day of use. This calibration standard is also used as the Continuing Calibration Verification sample.

8.2.9 **0.04ppm Calibration standard:** Pipet 5mL of the 0.2ppm calibration standard (Section 8.2.7) into a 25mL volumetric flask. Bring to volume with 0.1N NaOH. Prepare each day of use.

8.2.10 **0.02ppm Calibration standard:** Pipet 1mL of the 0.5ppm calibration standard (Section 8.2.6) into a 25mL volumetric flask. Bring to volume with 0.1N NaOH. Prepare each day of use.

8.2.11 **0.01ppm Calibration standard:** Pipet 10mL of the 0.02ppm calibration standard (Section 8.2.10) and 10mL of 0.1N NaOH into a container and mix. Prepare each day of use.

8.2.12 **0.004ppm Calibration standard:** Pipet 5mL of 0.04ppm calibration standard (Section 8.2.9) into a 50mL volumetric flask. Bring to volume with 0.1N NaOH. Prepare each day of use.

8.2.13 **0.1ppm ICV standard:** Pipet 1mL of the 10ppm LCS cyanide working solution (8.1.8) into a 100mL volumetric flask. Bring to volume with 0.1N NaOH. Prepare each day of use.

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 Blank

A minimum of one method blank is distilled and analyzed per batch of 20 or less samples. The Method Blank is utilized to determine if contamination or any memory effects are occurring. (Section 10.3.1.1) The blank result must be less than the reporting limit of 0.005 mg/L for liquids and 1 mg/kg for soils. If the blank result is outside of acceptance criteria, it is injected another time. If failure continues, sample analysis is terminated and the source of the problem is found and corrected. All samples analyzed since the last acceptable blank analysis must be reanalyzed.

9.2 Laboratory Control Sample (LCS)

Distill and analyze two LCSs per batch of 20 samples. A Low LCS is analyzed at 0.1mg/L and a high LCS is analyzed at 0.2mg/L. (Section 10.3.1.2)

LCS measurements for Method SM 4500 CN-CE must be within ±10%. For Method 9010C/9012B, the LCS measurements must be within ± 15% for liquids and +/- 20% for soils.

Samples for Method 9010C/9012B: LCSDs are distilled and analyzed along with the LCSs, as described above. The RPD between LCS and LCSD must be ≤ 20% for liquids and <35% for soils.

For soil samples: LCS and LCSD recovery must be within vendor specified acceptance criteria (it will be different for different lots of SRM)

If any LCS fails acceptance criteria for either % Recovery or RPD, analysis is terminated and samples are redigested and analyzed

9.3 Initial Calibration Verification (ICV)

The Initial Calibration Verification Standard (ICV) (Section 8.2.13) is analyzed immediately following the calibration to verify the curve. If the measurements exceeds ±10% of 0.1ppm, the analysis is terminated and recalibration must occur. An acceptable result for the ICV must be obtained prior to any sample analysis.

9.4 Continuing Calibration Verification (CCV)

The Continuing Calibration Verification Standard (CCV) (Section 8.2.8) is analyzed after every 10 injections. The CCV measurements cannot exceed ±10% of the 0.1ppm. If the CCV is not within acceptance criteria, the standard is injected again. If failure continues, sample analysis is terminated and the source of the problem is found and corrected. All samples analyzed since the last acceptable calibration verification must be reanalyzed.

9.5 Matrix Spike

Distill and analyze one spike per batch of 20 samples. For Method 9010C/9012B distill and analyze one spike per batch of 10 samples.

For Method 9010C/9012B, the % Recovery must be within ±20% for liquids and ±35% for solids. For SM 4500CN-CE, the % Recovery must be within ±10%. (Section 10.3.1.4).

Samples for Method 9010C/9012B: A Matrix Spike Duplicate (MSD) is distilled and analyzed along with the MS, as described above. The RPD between MS and MCSD must be ≤ 20% for liquids and <35% for soils

9.6 Laboratory Duplicate

Analyze one duplicate sample for every 20 samples. A duplicate sample is a sample brought through the entire sample preparation and analytical process. (Section 10.3.1.5)

The RPD must be 20% or less for liquids and 35% or less for soils and solids. See Section 12 for Corrective Action if these criteria are not met.

9.7 Method-specific Quality Control Samples

None.

9.8 Method Sequence

The analytical sequence is:

- Screening of samples for chlorine and sulfide
- Prep of amenable cyanide, if needed
- Distillation:
    - Samples

- LCS Low
- LCS High
- Blank
- Matrix Spike
- Duplicate

- Analysis:
  - Calibration and Standardization of Lachat Instrument
  - CCV
  - CCB
  - ICV
  - ICB
  - 10 samples
  - CCV
  - CCB
  - 10 samples
  - CCV
  - CCB
  - Calculation of sample cyanide concentration

10. Procedure

10.1 Equipment Set-up

10.1.1 Screening for Chlorine and Sulfide Interference

10.1.1.1 Chlorine Interference

Oxidizing agents, such as chlorine, decompose most cyanides. Test by placing a drop of sample on a strip of potassium iodide (KI) - starch paper previously moistened with acetate buffer solution, pH 4. If positive indication is noted, then treat an aliquot of sample with Ascorbic Acid (Section 8.1.2). Repeat this test until the KI paper is negative. Immediately inform the Department Supervisor of this interference.

Manganese dioxide, nitrosyl chloride, etc., if present also may cause discoloration of the test paper

10.1.1.2 Sulfide Interference

Oxidized products of sulfide convert CN- to SCN- rapidly, especially at high pH. Test for S^{-2} by placing a drop of sample on lead acetate test paper previously moistened with acetic acid buffer solution, pH 4 (Section 8.1.11). Darkening of the paper indicates presence of S^{-2}. Add powdered lead carbonate [Pb (CO3)] in 1g increments to the whole sample volume. Re-test with acetate paper. Repeat test until a drop of treated sample no longer darkens the acidified lead acetate test paper. Record in the sample prep logbook the amount of lead carbonate added to the sample.

10.1.2 Amenable Cyanide Prep

10.1.2.1 Add 25mL, or 1g and 25mL of DI (8.1.1), to a 100mL beaker with a stir bar.

10.1.2.2 Add 1mL of 10ppm LCS cyanide working solution (8.1.8) to beaker.

10.1.2.3 Prep one sample in duplicate.

10.1.2.4 Add 1-2mL of calcium hypochlorite solution (8.1.18) to all samples and QC under the hood.

10.1.2.5 Check for the presence of chlorine by placing a drop of the sample on a KI-starch paper (7.6). It should turn blue if there is sufficient chlorine.

10.1.2.6 Check samples every 15 minutes for one hour for the presence of chlorine and add more calcium hypochlorite if needed.

10.1.2.7 After one hour of digesting, add ascorbic acid (8.1.2) until KI strip no longer turns blue.

10.1.2.8 Bring sample volume up to 50mL and distill following steps 10.3.1.6 thru 10.3.1.15.

10.2 Initial Calibration

10.2.1 Allow 15 minutes for heating unit to warm up to 60 °C.

10.2.2 Prepare a series of 7 calibration standards (Sections 8.2.6 – 8.2.12) and a 0.1N NaOH blank. Alternatively, calibration standards may be prepared by auto-diluting a 0.5ppm calibration standard (Section 8.2.6). Perform this function per the Lachat manufacturer's instructions for the Quick Chem 8500.

10.2.3 Set up manifold as shown in Table 1.

10.2.4 Input data system parameters as shown in Table 2.

10.2.5 Place standards and blank in the autosampler, per the manufacturer's instructions. Input the information required by the data system, such as concentration, replicates and QC scheme.

10.2.6 Inject the standards, per the manufacturer's instructions.

10.2.7 Prepare a standard curve by plotting instrument response against standard concentration values. A calibration curve is fitted to the calibration solution concentration/response data using the computer. The calibration coefficient of the curve must be greater than or equal to 0.995 before sample analysis can begin.

Calibration coefficient will be calculated using Lachat software. All calibration points are back calculated by Lachat software and should be within 10% from true concentration, except 2 lowest points of calibration curve. %recoveries for low range will be wider, but shouldn't exceed 100% and correlation coefficient will not be worse than 0.995.

10.3 Equipment Operation and Sample Processing

10.3.1 Distillation

10.3.1.1 Add 50mL of shaken liquid sample, or 1gram of a well-homogenized solid sample and 50mL of DI, to the 50mL reaction vessel.

10.3.1.2 For the Liquid High LCS, fill one 50mL reaction vessel with 50mL DI. For the soil High LCS, add 1g Ottawa Sand (Section 8.1.15) and 50mL of DI. After the system has been charged with air, add 1mL of 10ppm LCS cyanide working solution (8.1.8) to the closed system. (Final concentration equals 0.2mg/L.)

For the Liquid Low LCS, fill one 50mL reaction vessel with 50mL of DI. For a soil Low LCS, add 0.2-0.3 g (depending on actual SRM stock concentration) of SRM (sec 8.1.17) and 50mL of DI. Record exact SRM weight. For liquid samples: After

the system has been charged with air, add 0.5mL of 10ppm LCS cyanide working solution (Section 8.1.8) to the closed system. (Final concentration equals 0.1mg/L.) **Don't add liquid Cyanide Standard for soil samples!** Final LCS soil concentration will change based on SRM lot
Samples for Method 9010C/9012B: Prepare a LCS Duplicate along with the LCSs described above.

10.3.1.3 For the method blank for liquid samples, fill one 50mL reaction vessel with 50mL of DI. For the method blank for soil samples, fill a 50mL reaction vessel with 1g of Ottawa Sand (Section 8.1.15) and 50mL DI.

10.3.1.4 For the matrix spike, fill a 50mL reaction vessel with 50mL of sample that has been chosen to be spiked. For soil samples, use 1g of soil and add 50mL of DI water. After the system has been charged with air, add 1mL of 10ppm working cyanide spiking solution (8.1.10) to the closed system.

Samples for Method 9010C/9012B: Prepare a Matrix Spike Duplicate (MSD) in the same manner as the MS, as described above.

10.3.1.5 For the duplicate, fill a 50mL reaction vessel with a duplicate aliquot of 50mL, or 1g soil and 50mL DI water of a sample that has been chosen to be duplicated.

10.3.1.6 Into the receiver or scrubber tube add 5mL of a 1N NaOH solution and add 40mL of DI water.

10.3.1.7 Arrange tubes in the distillation unit noting in the logbook which sample is in which glassware. The glassware is numbered and consistently placed in the same position in the distillation unit.

10.3.1.8 Assemble the unit completely. Turn on the pump. There must be gas bubbling in each tube. Check to make sure all connections are tight and bubbles are flowing at an equal rate in each sample tube. If not, adjust flow rate with the knobs in front of each receiver tube and/or check lines to ensure they are not obstructed.

10.3.1.9 Add 5mL of 0.4N sulfamic acid (8.1.4) to each sample tube and rinse the closed 50mL reaction vessel with a squirt of DI. No residue is to be left of the vessel wall.

10.3.1.10 Add 5mL of 1:1 H_2SO_4 (8.1.5) to each sample tube and rinse the closed 50mL reaction vessel with a squirt of DI. No residue is to be left on the vessel wall. Turn on the heat. Samples are to come to a boil on all of the midi-still units.

10.3.1.11 After 2 minutes of heating, add 2mL of 2.5M $MgCl_2$ Solution (8.1.6) to each sample tube, followed by a rinse with DI. If foaming occurs, an additional 2mL of $MgCl_2$ Solution may be added. If foaming continues, stop the distillation for that sample and reduce the sample size by 2 – 5x (as determined by the severity of the foaming). Contact the Inorganics Supervisor for guidance.

10.3.1.12 Turn on the chiller.

10.3.1.13 Set the timer-dial on the distillation unit to "110".

10.3.1.14 After 110 minutes the unit will shut off; leave the chiller running for an additional 30 minutes while the tubes cool down.

10.3.1.15 Pour contents of the scrubber tube into a new, labeled, centrifuge tube (Section 7.5). Carefully rinse the scrubber tube with DI water and add rinseate to the centrifuge tube to bring to 50mL volume. Cap and refrigerate for later analysis by the Lachat Instrument.

10.3.2 Lachat Analysis

10.3.2.1 Following initial calibration and standardization, (Section 10.2 and 10.4), place the samples in the autosampler, per the manufacturer's instructions. Input the information required by the data system, such as concentration, replicates and QC scheme.

10.3.2.2 Inject the samples, per the manufacturer's instructions.

10.3.2.3 The data system calculates sample concentration using the regression equation. Results are mg/L for Aqueous samples and mg/Kg for soil and solid samples.

10.3.2.4 If sample concentrations are greater than the highest calibration standard, the distilled sample is diluted with 0.1N sodium hydroxide (NaOH) diluent (Section 8.2.2), and reanalyzed. When the automated diluter is used, 0.1N NaOH is also used. **Do not dilute distilled samples or standards with DI water.**

10.4 Continuing Calibration

10.4.1 After the calibration has been established, it must be verified by the analysis of an Initial Calibration Verification Standard (ICV) (Section 8.2.13). The ICV of 0.1ppm must be made from a different source than the calibration standards. If the measurements exceed ±10% of 0.1ppm, the analysis is terminated. See Section 9.3 for Corrective Actions.

10.4.2 A Blank and a Continuing Calibration Verification (CCV) sample (Section 8.2.8) are analyzed after every 10 injections. The CCV measurements cannot exceed ±10% of the CCV value of 0.1ppm and the blank result must be less than the reporting limit of 0.005 mg/L. See Section 9.4 for CCV Corrective Actions and Section 9.1 for Blank corrective actions.

10.5 Preventive Maintenance

Preventative maintenance is recorded in the instrument maintenance logbook and is performed on the Lachat instrument as follows:

Daily:

1) Clean the autosampler
2) Clean the surfaces on the auto-dilutor
3) Prime the dilutor with fresh DI water
4) Clean the pump surfaces
5) Clean the detector with DI and dry with Kim-Wipes
6) Clean the instrument surfaces with DI, wipe clean with a paper towel

Bi-weekly:

1) Clean the injection ports with DI. Take apart the injection valve and inspect it for corrosion. Make sure that the valve connectors are tight and the o-rings are not worn. If the O-rings look worn replace with new ones.

Monthly:

1) Using DI water, clean the unions and the tees that are associated with the manifold.
2) Delete Temporary files on the computer

Every 6 months:

1) Replace the o-rings in the injection valve.
2) Replace the o-rings in the manifold

3) Back up the files on the computer

11. Data Evaluation, Calculations and Reporting

11.1 The Lachat data system calculates sample concentration using the regression equation.

11.2 Report only those values that fall between the lowest and the highest calibration standards.

11.3 Report results in mg CN/L for liquids and in mg CN/kg for soils.

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

Holding time exceedance and improper preservation are noted on the nonconformance report form. The analyst narrates the nonconformance when the project is turned in for review. The narration must state what the nonconformance was and any corrective action taken.

Perform routine preventative maintenance according to Section 10.5. Record all maintenance in the instrument logbook. Notify the Department Manager if the instrument problems are not routine in nature. The Department Manager determines whether the problem can be corrected with in-house technical staff or if the instrument vendor should be contacted to schedule service. All service calls are documented in the Instrument logbook, and a copy of the service report is given to the Department Manager.

Review of standards, blanks and standard response for acceptable performance occurs for each batch of samples. If any part of batch quality control does not meet acceptance criteria, the Department Manager is notified. If enough sample remains and holding time has not expired, then the batch is redistilled and reanalyzed. If there is not sufficient sample remaining to allow redistillation, then that analysis is repeated and both sets of data are reported with the nonconformance narrated on the final report.

If either the ICV, ICB, Method Blank, LCS, LCSD, CCV, or CCB recovery falls outside the designated acceptance range, the laboratory performance is judged to be out of control, and the problem must be immediately identified and corrected. The analytical result in the unspiked samples is suspect and is only reported for regulatory compliance purposes with the appropriate nonconformance action form.

Immediate corrective action for a failing CCV/CCB includes reanalyzing the failing standard. If the standard passes the second time then the analysis may be continued. The raw data is noted. If the standard fails again, the problem must be found and corrected. The CCV/CCB standard is remade and reanalyzed. If the standard passes, all samples analyzed since the previous passing standard are reanalyzed. The raw data is noted and all data associated with the failing standard must have one line drawn through the data, indicating it's unable.

If the standard fails after instrument maintenance, the instrument is recalibrated. A new ICV/ICB is performed, and all samples analyzed since the previous passing CCV/CCB are reanalyzed.

If following reanalysis of the LCS, it is found to still be outside acceptance criteria, the entire sample batch must be redistilled and reanalyzed. If the %RPD between the LCS/LCSD fails after reinjection, then the entire sample batch must be redistilled and reanalyzed.

If the Method Blank fails it is re-poured and reinjected. If failure continues, the associated sample data is evaluated as follows: Sample results below the detection limit may be reported with a narrative included. If samples have positive results, and the results are greater than 10x the concentration found in the method blank, the data may be reported with a narrative included. Any positive samples with results less than 10x the concentration found in the method blank must be redistilled and reanalyzed.

If the Matrix Spike recovery does not meet acceptance criteria, and the LCS recovery is acceptable, matrix interference may be assumed. The associated data may be reported with a narrative included.

If sample Duplicates are outside of the acceptance criteria, the analyst examines the sample for homogeneity. If the sample is not homogenous, this is narrated on the final report. Clean, homogenous samples are redistilled and reanalyzed within holding time.

Sample nonconformance regarding a Matrix Spike recovery or a duplicate %RSD is narrated on the final report along with the corrective action(s) taken.

13. Method Performance

13.1 Detection Limit Study (DL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

The laboratory follows the procedure to determine the DL, LOD, and/or LOQ as outlined in Alpha SOP ID 1732. These studies performed by the laboratory are maintained on file for review.

The quarterly method reporting limit (MRL) verification requirement is satisfied by the quarterly LOQ analysis, as per SOP/1732.

13.2 Demonstration of Capability Studies

Refer to Alpha SOP ID 1739 for further information regarding IDC/DOC Generation.

13.2.1 Initial (IDC)

The analyst must make an initial, one-time, demonstration of the ability to generate acceptable accuracy and precision with this method, prior to the processing of any samples.

13.2.2 Continuing (DOC)

The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

Refer to Alpha's Chemical Hygiene Plan and Hazardous Waste Management and Disposal SOP for further pollution prevention and waste management information.

15. Referenced Documents

2121 Chemical Hygiene Plan

1732 Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) SOP

1739 Demonstration of Capability (DOC) Generation SOP

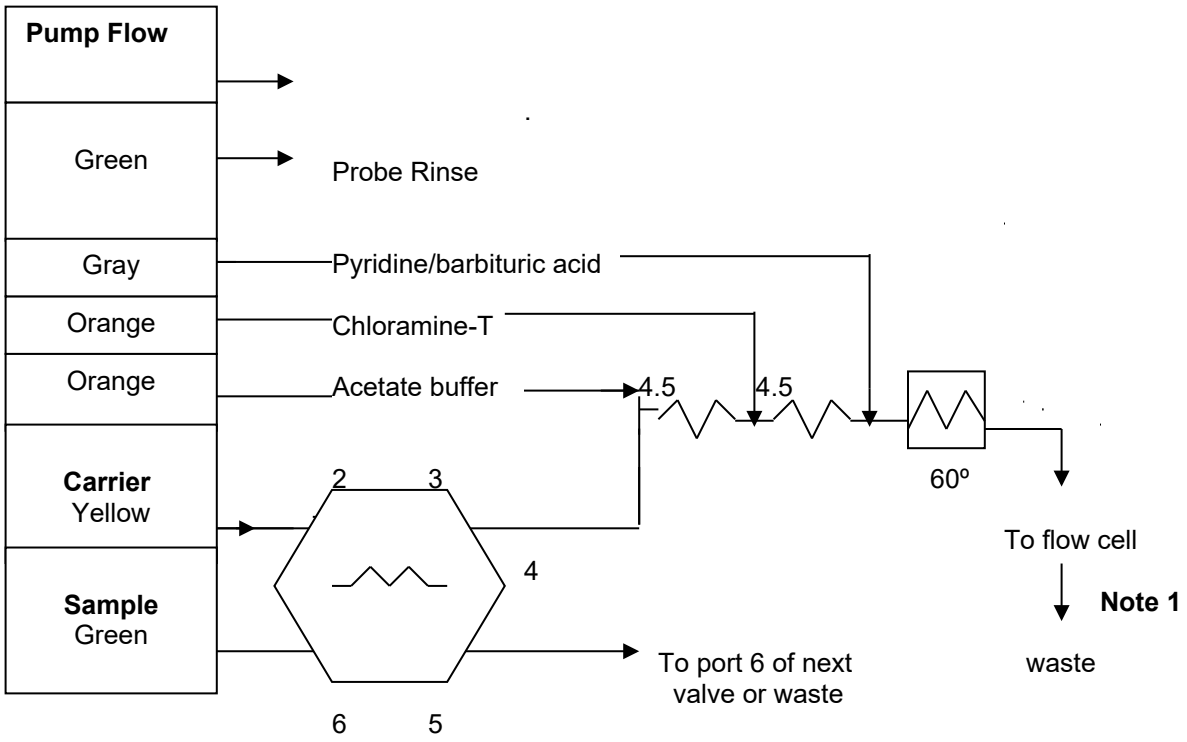
1728 Hazardous Waste Management and Disposal SOP

16. Attachments

TABLE 1: Cyanide Manifold Diagram

TABLE 2: Data System Parameters for QC 8500

TABLE 1
Cyanide Manifold Diagram



Sample Loop = 150cm x 0.8mm i.d. Interference Filter = 570nm
QC8000 Sample loop = 150cm x 0.8mm i.d.

CARRIER is 0.1 N sodium hydroxide solution.

All manifold tubing is 0.8mm (0.030 in) i.d. This is 5.2µL/cm.

4.5 is 70.0cm of tubing on a 4.5cm coil support

APPARATUS: An injection valve, flow cell, a 10mm path length flow cell, and a colorimetric detector module are required.

The box  shows 650cm of tubing wrapped around the heater block at the specified temperature.

Note 1: 2 meter back pressure loop, 0.52mm i.d.

TABLE 2
Data system Parameters for QC 8500

The timing values listed below are approximate and will need to be optimized using graphical events programming.

Sample Throughput: 65 samples/hour, 55 s/sample
Pump Speed: 35
Cycle Period: 55

Analyte Data:

Concentration Units: mg CN^-/L
Peak Base Width: 60.5 s
% Width Tolerance: 100
Threshold: none
Inject to Peak Start: 55 s
Chemistry: Direct

Calibration Data:

Levels	1	2	3	4	5	6	7	8
Concentration ug/50mL	25	10	5	2	1	0.5	0.2	0

Calibration Fit Type: 1st Order Polynomial
Calibration Rep. Handling: Replace
Weighting Method: 1/X
Concentration Scaling: None
Force Through Zero: No

Sampler Timing:

Min. Probe in Wash Period: 14 s
Probe in Sample Period: 13 s

Valve Timing:

Load Time: 0.0 s
Load Period: 9 s
Inject Period: 20 s

Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

References: **Method 8260D**, SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Update VI (Phase II), June 2018.

Method 5035A, SW-846, Closed System Purge & Trap and Extraction for Volatile Organics in Soil and Waste Samples. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, Draft Revision I, July 2002.

Method 5030B, Purge & Trap for Aqueous Samples. SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Update III, December 1996.

Method 5030C, Purge & Trap for Aqueous Samples. SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846, Update IV, May 2003.

1. Scope and Application

Matrices: Method 8260 is used to determine volatile organic compounds in a variety of solid waste matrices. This method is applicable to nearly all types of samples, regardless of water content, including various air sampling trapping media, ground and surface water, aqueous sludges, caustic liquors, acid liquors, waste solvents, oily wastes, mousses, tars, fibrous wastes, polymeric emulsions, filter cakes, spent carbons, spent catalysts, soils, and sediments.

Definitions: Refer to Alpha Analytical Quality Manual.

The compounds listed in Table 5 may be determined by this method.

There are various techniques by which these components may be introduced into the GC/MS system. Purge-and-trap, by Methods 5030C (aqueous samples) and 5035A (solid and waste oil samples), is the most commonly used technique for volatile organic analytes. However, other techniques are also appropriate and necessary for some analytes. One technique is direct injection of an aqueous sample (concentration permitting).

The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one or more of the following laboratory personnel before performing the modification: Department Manager, Department Supervisor, Laboratory Director, or Quality Assurance Officer.

This method is restricted to use by or under the supervision of analysts experienced in the operation of the gas chromatograph/mass spectrometers and in the interpretation of mass spectra and their use as a quantitative tool. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

2. Summary of Method

The volatile compounds are introduced into the gas chromatograph by the purge-and-trap method or by direct injection. The analytes are introduced to a narrow-bore capillary column for analysis. The Gas Chromatograph (GC) is temperature-programmed to separate the analytes, which are then detected with a mass spectrometer (MS) interfaced to the GC.

Analytes eluted from the capillary column are introduced into the mass spectrometer via a direct connection. Identification of target analytes is accomplished by comparing their mass spectra with the electron impact (or electron impact-like) spectra of authentic standards. Quantitation is accomplished by comparing the response of a major (quantitation) ion relative to an internal standard, comparing sample response to the calibration standards.

2.1 Method Modifications from Reference

None.

3. Reporting Limits

Table 1 lists our typical reporting limits.

4. Interferences

4.1 Impurities in the purge gas, organic compounds out-gassing from the plumbing ahead of the trap, and solvent vapors in the laboratory account for the majority of contamination problems. The analytical system must be free from contamination under the conditions of the analysis. Running laboratory reagent blanks as described in Section 9.1 and 10.3 demonstrates the system is free of contamination. The use of non-Teflon plastic tubing, non-Teflon thread sealants, or flow controllers with rubber components in the purge and trap system must be avoided.

4.2 Sample contamination occurs by diffusion of volatile organics (particularly fluorocarbons and methylene chloride) through the septum seal into the sample during shipment and storage. A trip blank or a field reagent blank prepared from reagent water and carried through the sampling and handling protocol serves as a check on such contamination.

4.2.1 Storage blanks shall be analyzed if contamination is suspect. If contamination is confirmed by positive detections in the sample storage blanks, all data from samples contained in the relative refrigerator or freezer shall be evaluated for possible contamination. If the samples contain suspected contamination, the Client Services department shall be notified in order to contact the necessary clients regarding the contamination. Samples shall be reanalyzed if so desired by the client. If suspected contamination is not confirmed by storage blanks, no further action shall be pursued concerning said blanks. It is recommended that further action be taken to determine the possible cause of suspected contamination.

4.3 Contamination by carry-over can occur whenever high level and low level samples are sequentially analyzed. Whenever a highly concentrated sample is being encountered, it should be followed by an analysis of reagent water (instrument blank) to check for potential contamination. If carry-over is suspected, then numerous instrument blanks may be required; additionally, all affected samples are rerun for confirmation. In case of severe contamination, preventive maintenance of the entire system may be required.

5. Health and Safety

The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of safety data sheets (SDS) is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

The following method analytes have been tentatively classified as known or suspected human or mammalian carcinogens: benzene, carbon tetrachloride, 1,4-dichlorobenzene, 1,2-dichloroethane, hexachlorobutadiene, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, chloroform, 1,2-dibromoethane, tetrachloroethene, trichloroethene, and vinyl chloride. Pure standard materials and stock standard solutions of these compounds should be handled in a hood. A NIOSH/MESA approved toxic gas respirator should be worn when the analyst handles high concentrations of these toxic compounds.

5.1 Lab coats, safety glasses, and gloves must be worn when handling samples, standards, or solvents.

5.2 All stock solution standard preparation must be performed in the volatiles hood. Initial calibration, continuing calibration, laboratory control sample and client sample dilutions do not need to be performed in the hood.

5.3 All expired standards must be placed into the waste bucket in the lab for future disposal. The container must be labeled properly with hazard warning labels indicating the container contents.

5.4 Bottles containing Methanol must be stored in the flammables cabinet.

6. Sample Collection, Preservation, Storage, Shipping and Handling

6.1 Sample Collection and Preservation

6.1.1 Aqueous Samples

Grab samples are collected in standard 40mL glass screw-cap vials with Teflon lined silicon septa (VOA vial). Two or more VOA vials should be filled per sample location. EPA Method 8260 requires that samples be acidified to eliminate the possibility of biological degradation. Unless otherwise directed for project-specific reasons, all VOA vials are delivered to the client with approximately 2 – 4 drops of 1:1 HCl added to the vial, which is sufficient to adjust the pH of the sample to < 2. Prepared trip blanks are provided to the client to accompany field samples for QC purposes.

Fill the sample vial to the point of overflowing so that no headspace is contained within. Samples must be introduced into the vials gently to reduce agitation, which might drive off volatile compounds or cause loss of the HCl preservative.

Seal the bottle so that no air bubbles are in the VOA vial. If preservative has been added, shake vigorously for one minute. Invert the bottle and tap to check for air bubbles. Recollect the samples if any air bubbles are present.

Maintain the hermetic seal on the VOA vial until time of analysis.

6.1.2 Soil Samples

The recommended sampling method for soil samples is EPA 5035A. Method 5035A provides for two distinct sampling procedures, depending on the required reporting limits and suspected or known concentration levels of target analytes. These methods are referred to as the High Level and Low Level methods. Both are listed below but depending on the samples only one of the methods may be required. If concentration levels are unknown, it is recommended that samples be collected using both procedures.

The Lab will analyze the high level sample first, followed by the low level sample if the results from the high level analysis show that the sample is clean or contains analytes at low levels. The typical reporting levels of the two methods are listed in Table 1.

6.1.2.1 High Level Soil Samples

Collect sample in a standard 40mL glass screw-cap vial with Teflon lined silicon septa (VOA vial). The vial is provided containing 15mL of Purge and Trap Grade methanol and is labeled and weighed prior to addition of sample. Record the weight of the vial with methanol on the vial label. Prepared trip blanks are provided to the client to accompany field samples for QC purposes.

Approximately 15g of soil is added to the vial in the field, making sure that the sample is completely covered by the methanol.

Maintain the hermetic seal on the VOA vial until the time of analysis.

An additional sample of the soil must also be obtained (without methanol) to be used for the determination of soil moisture content to allow for the calculation of the dry weight results, and to calculate the methanol dilution effect. (See Sections 11.2.2.2 and 11.2.2.2.1)

6.1.2.2 Low Level Soil Samples

Collect sample in a standard 40mL glass screw-cap vials with Teflon lined silicon septa (VOA vial). Two samples should be taken per sample location. Vials are provided containing a magnetic stirring bar and 5 mL of either 200g/L sodium bisulfate solution or water, prepared by a certified vendor. These vials are labeled and weighed prior to addition of sample. Record the weight of the vial with the stirring bar and preservative on the vial label.

Approximately 5g of soil is added to the vial in the field, making sure that the sample is completely covered by the sodium bisulfate solution or water.

Maintain the hermetic seal on the VOA until the time of analysis.

6.2 Sample Handling and Storage

Document client specific sample handling, preservation and collection criteria in the project file. The laboratory Log-in staff documents sample temperature at the time of receipt.

Record deviations from this SOP or client specific criteria on the chain of custody form.

Record holding time exceedance, improper preservation and observed sample headspace on the nonconformance report form.

6.2.1 Aqueous Samples

Ice or refrigerate all samples from the time of collection until analysis, maintaining the sample temperature between 1 and 4 °C. Sample receiving personnel must note on the sample delivery group form when samples received at the laboratory are not within the temperature criteria. If more than one vial is received for a sample, the vials are stored in separate refrigerators. Storing the vials apart provides a useful check if laboratory contamination of a sample is suspected. Samples must be analyzed within 14 days of collection. Unpreserved samples must be analyzed within 7 days of collection.

6.2.2 High Level Soil Samples

Ice or refrigerate all samples from the time of collection until analysis, maintaining the sample temperature between 2 and 6 °C. Sample receiving personnel note on the

nonconformance report form when samples received at the laboratory are not within the temperature criteria. Samples must be analyzed within 14 days of collection.

6.2.3 Low Level Soil Samples

Ice or refrigerate samples preserved with water or sodium bisulfate from the time of collection until analysis, maintaining the sample temperature between 2 and 6 °C. Samples preserved with water are to be immediately frozen after sampling. Sample receiving personnel note on the nonconformance report form when samples received at the laboratory are not within the temperature criteria. Samples must be analyzed within 14 days of collection.

6.3 Sample Shipping

Samples requiring shipment to the laboratory are shipped in ice-packed coolers via an overnight delivery service in accordance with applicable Department of Transportation regulations.

7. Equipment and Supplies

7.1 Purge and Trap System (For Aqueous samples): The purge-and-trap system consists of two separate pieces of equipment: a purging device (autosampler) (TekmarAtomxXYZ, EST Centurion or equivalents) coupled to the desorber (concentrator) (EST Encon or Encon EV, or equivalents).

7.1.1 Purge gas = Helium analytical grade (99.999%) or Nitrogen analytical grade (99.999%).

7.1.2 The purging device is configured with 25 mL sample purge tubes, and the purge gas is introduced at the bottom of the water column as finely divided bubbles.

7.1.3 The trap used in the desorber is typically a Supelco “K” trap. Different traps may be used if equivalent performance is demonstrated.

7.1.4 The desorber is capable of rapidly heating the trap to 260°C. The trap is not heated above manufacturer’s specifications.

7.2. Purge and Trap System (For Low Level and High Level Soil Samples): The purge and trap system consists of two separate pieces of equipment: a purging device (autosampler) (Tekmar AtomxXYZ, EST Centurion or equivalents) coupled to the desorber (concentrator) (Tekmar Velocity or Atomx, or EST Encon or Encon EV, or equivalents).

7.2.1 Purge gas = Helium analytical grade (99.999%) Nitrogen analytical grade (99.999%).

7.2.2 The autosampler purging device is a closed system, designed to accept the 40mL VOA vials. The VOA vial, containing the soil sample, water (or sodium bisulfate), and stirring bar is placed into the autosampler tray. The instrument automatically adds reagent water, internal standards, and surrogates to the unopened VOA vial. The vial is heated to 40 °C, and the purge gas is introduced into the aqueous portion to purge the volatile components onto the trap.

7.2.3 The trap used in the desorber is typically a Supelco “K” trap. Different traps may be used if equivalent performance is demonstrated.The desorber is capable of rapidly heating the trap to 260 °C. The trap is not heated above manufacturer specifications.

7.3 Gas Chromatography/Mass Spectrometer/Data System:

7.3.1 Gas Chromatograph, Agilent 6890/7890 or equivalent: An analytical system complete with a temperature-programmable gas chromatograph with appropriate

interface for sample introduction device. The system includes all required accessories, including syringes, analytical columns, and gases. The capillary column is directly coupled to the source of the GC/MS system.

7.3.2 Typical Gas Chromatographic Columns:

7.3.2.1 Column 1: Restek 502.2, 40 meter, 0.18mm ID, 1.0um, or equivalent.

7.3.2.2 Column 2: Restek RTX-VMS, 30 meter, 0.25mm ID, 1.4um, or equivalent.

7.3.2.3 Column 3: Restek RTX-VMS, 20 meter, 0.18mm ID, 1.5um, or equivalent.

7.3.3 Mass Spectrometer, Agilent 5973/5975/5978 or equivalent: Capable of acquiring mass spectra from mass/charge (m/z) 35 to 270 at a rate fast enough to acquire at least five (but preferably 10 or more) mass spectra across each chromatographic peak of interest, using 70 volts (nominal) electron energy in the electron impact ionization mode. The mass spectrometer must be capable of producing a mass spectrum for 4-Bromofluorobenzene (BFB) which meets all of the criteria in Table 3, when 50ng of the GC/MS tuning standard (BFB) are injected through the GC. For all SIM analysis, the mass spectrometer must also be able to acquire data in a dual acquisition mode (SIM and full scan).

7.3.4 Data System: Hewlett-Packard EnviroQuant software is used for data acquisition and allows the continuous acquisition and storage on machine-readable media of all mass spectra obtained throughout the duration of the chromatographic program.

EnviroQuant E.02.02 (or equivalent) is used for data processing and allows searching of any GC/MS data file for ions of a specified m/z, and plotting such ion abundances versus time or scan-number.

The most recent version of the EPA/NIST Mass Spectral Library is loaded onto the Target / EnviroQuant data system.

7.4 Wiretrol or Micro syringes: 10µL - 1,000µL.

7.5 Syringes: 5mL, 10mL, or 25mL, glass with Luerlock tip.

7.6 Balances: Top-loading, capable of weighing 0.01g.

7.7 Vials: 2mL, 4mL.

7.8 Disposable Pipets.

7.9 Volumetric Flasks: Class A, appropriate sizes, with ground-glass stoppers.

7.10 Eppendorf pipets.

7.11 Ottawa Sand: SiO_2

8. Reagents and Standards

Reagent grade organic chemicals shall be used in all tests. Unless otherwise indicated, it is intended that all organic reagents shall conform to the specifications of the Committee on Analytical Reagents of the American Chemical Society, where such specifications are available. Other grades may be used, provided it is first ascertained that the reagent is of sufficiently high purity to permit its use without lessening the accuracy of the determination.

Great care must be taken to maintain the integrity of all standard solutions. Standards in methanol are stored at –10ºC or less, in amber vials with PTFE-lined screw-caps.

8.1 Organic-free Reagent Water:

All references to water in this method refer to organic-free reagent water, which is tap water passed through activated carbon and air bubbled through.

8.2 Methanol:

Purge and Trap Grade or equivalent. Store in flammables cabinet.

8.3 Stock Solutions:

All stock standards are purchased from commercial vendors as certified ampule solutions. When an ampule of stock solution is opened, it is transferred to a labeled amber screw-cap vial with minimal headspace. The expiration date of the stock solution is either the vendor specified expiration date or 6 months from the date the ampule was opened, whichever is sooner. Typical stock standard concentrations are listed in Table 4.

8.4 Intermediate Standards: Intermediate standards are prepared volumetrically by diluting the appropriate stock standard(s) with methanol. Initial Calibration solutions expire 2 months from the date of preparation, or sooner if daily continuing calibration checks do not achieve the method acceptance criteria. If the Intermediate Standards are used as a second source to verify a valid Initial Calibration solution, there is no expiration date.

8.4.1 Internal Standard Solutions:

The internal standards are Fluorobenzene, Chlorobenzene-d_5, and 1,4-Dichlorobenzene-d_4. The intermediate IS solution is prepared by diluting the stock solution(s) with methanol to a concentration of 100 µg/mL. The appropriate amount of IS solution is added to the water or soil sample or QC sample to achieve a final concentration of 100 ng/sample or standard. Internal standard is added at the same concentration to all standards, samples, and QC samples.

8.4.2 Surrogate Standard Solutions:

The surrogate standards are Dibromofluoromethane, 1,2-Dichloroethane-d_4, Toluene-d_8, and 4-Bromofluorobenzene. The intermediate surrogate solution is prepared by diluting the stock solution(s) with methanol to a concentration of 100 µg/mL. The appropriate amount of surrogate solution is added to the water or soil sample or QC sample to achieve a final concentration of 100 ng/sample.

8.4.3 Target Compound Solutions:

The target analytes routinely reported by this method are listed in Table 1 and 4. The intermediate target compound solutions are prepared by diluting the stock solution(s) with methanol. This set of solutions, at concentrations of 200 µg/mL, is used for preparation of the calibration standards.

8.4.4 4-Bromofluorobenzene (BFB) Tune solution:

8.4.4.1 A solution containing BFB at a concentration of 50 µg/mL is prepared by volumetrically diluting the BFB stock solution. 1 µL of this solution is direct-injected or purged into the GC/MS system to verify system performance prior to any standard or sample analysis.

8.4.4.2 BFB may be analyzed in full scan mode while standards, samples, and QC are analyzed in SIM

8.5 Calibration Standards:

There are two types of calibration standards used for this method – initial calibration standards and calibration verification standards.

8.5.1 Initial Calibration Standards:

Initial calibration standards can be prepared at the levels listed in Table 4 (other/different levels are allowed). The Initial Calibration needs to have a minimum of 5 standards, 6 if a quadratic curve fit is used. Prepare these solutions in organic-free reagent water. The standards correspond to the range of concentrations found in typical samples and do not exceed the working range of the GC/MS system. Initial calibration should be mixed from fresh stock standards and dilution standards when generating an initial calibration curve.

8.5.2 Initial Calibration Verification Standard (ICV):

The initial calibration verification standard is at the same concentration as the level 3 for liquids and level 4 for soils initial calibration standard. This standard is prepared from source materials from a second manufacturer or from a manufacturer's batch prepared independently from the batch used for calibration. A second lot# from the same manufacturer may be adequate to meet this requirement. The standard must contain all calibrated target analytes that will be reported for the project, if readily available.

8.5.3 Continuing Calibration Verification Standard:

The continuing calibration verification standard, or calibration check standard, should be analyzed near the action level of the project. Since most projects are focused on achieving low reporting limits, the continuing calibration verification standard is at the same concentrations as the level 3 for liquids and level 4 for soils initial calibration standard. This standard is run at the beginning of each analytical sequence, following the BFB tune standard, to verify system performance.

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 Blank(s)

9.1.1 Before processing any samples, the analyst must demonstrate through the analysis of a method blank (MB) or instrument blank that equipment and reagents are free from contaminants and interferences. The blank must contain the internal standards and surrogates and must be from the same source of water used for preparing the standards, QC samples and sample dilutions.

9.1.2 Analyze a matrix-specific blank, i.e. methanol samples need to have methanol in the blank; sodium bisulfate samples need to have a sodium bisulfate blank analyzed;

TCLP samples need a TCLP blank, after each ICAL and CCV, and prior to any sample analysis to demonstrate that interferences from the analytical system are under control.

9.1.3 Low level soil blanks must include 5g of Ottawa sand and be vortexed.

9.1.4 Blanks are considered to be acceptable if target analyte concentrations are less than one half the LOQ or are less than project-specific requirements. Blanks may contain analyte concentrations greater than acceptance limits if the associated samples in the batch are unaffected (i.e., target analytes are not present in samples or sample concentrations/responses are >10X the blank).

9.1.5 If an analyte of interest is found in a sample in the batch near a concentration detected in the blank, the presence and/or concentration of that analyte should be considered suspect and may require qualification. Reanalysis is not necessary if the analyte concentration falls well below the action or regulatory limit or if the analyte is deemed not important for the project.

9.1.6 The laboratory must not subtract the results of the MB (or any blank) from those of any associated samples.

9.2 Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD)

An LCS/LCSD pair is analyzed at the beginning of each analytical sequence. Since the LCS contains the same compounds at the same concentrations as the continuing calibration check standard, the same analysis is used to satisfy both QC elements. The LCS/LCSD acceptance criteria are based on in-house control limits, unless specified by project/regulation. Less than 10% of total compounds may be outside of control limits if recoveries are >10%. (Note: this does not apply to difficult analytes listed in Table 7 which may be accepted at recoveries <10.) If >10% of analytes are recovered above control limits, this is deemed acceptable as long as the analytes in question are not detected in associated samples. If these criteria are not met, the entire batch is re-extracted. If re-extraction is not possible, due to insufficient sample or holding time exceedance, the analyst must write up the failure on a narrative sheet for inclusion in the client report.

9.3 Initial Calibration Verification (ICV)

Refer to 12

9.4 Continuing Calibration Verification (CCV)

Refer to Section 11.2.

9.5 Matrix Spike/ Matrix Spike Duplicate

Upon Client Request or state mandate, a matrix spike/matrix spike duplicate pair may be analyzed with each batch of 20 or less samples. The MS/MSD are sample aliquots spiked with the target compounds at the same concentration as the continuing calibration standard for water analysis and level 6 for soils. The MS/MSD acceptance criteria are based on in-house control limits. If the MS/MSD does not meet the criteria, but the LCSD does, the failure may be attributed to sample matrix. Report the MS/MSD, including a narrative sheet for inclusion with the client report.

9.6 Laboratory Duplicate

Not applicable.

9.7 Method-specific Quality Control Samples

9.7.1 Internal Standards

Area counts of the internal standard peaks in all samples and QC samples must be between 50-200% of the areas of the internal standards in the QC check standard.

If any individual percent recovery falls outside the range, that parameter has failed the acceptance criteria. For calibration standards, CCVs, LCS/LCSD or blanks the internal standard must be within the range for data to be reported to the clients. For samples, matrix spikes and duplicates: if the data is not within the range, the sample is rerun to confirm that the failure is due to sample matrix. A nonconformance report form is completed to ensure client notification and reporting if matrix effect is confirmed.

9.7.2 Surrogates

Surrogates are added to each field sample and QC sample. The laboratory must evaluate surrogate recovery data from individual samples versus the surrogate control limits developed by the laboratory. The surrogate acceptance criteria are listed in Table 2. Since the SIM analysis is acquired in dual mode, the surrogates from the full scan are used to evaluate the entire sample (SIM and full scan).

9.8 Method Sequence

In a 12-hour period, the typical analytical sequence is as follows:

- BFB
- QC Check Standard/Laboratory Control Sample/LCSD
- Method Blank
- Samples
- MS/MSD (upon Client request, may be run any time after the Method Blank)

10. Procedure

10.1 Equipment Set-up

Typical instrument operating conditions are listed below. Alternate conditions are allowed if method performance criteria can be met.

10.1.1 GC Conditions:

Temperature 1:	35°C	Carrier gas:	Helium 99.999% or Nitrogen 99.999%
Hold Time 1:	4 minutes	Carrier mode:	Constant flow
Ramp 1:	6°C/minute	Carrier flow:	1 mL/minute
Temperature 2:	150°C		
Hold Time 2:	0 minutes		
Ramp 2:	8°C/minute		
Temperature 3:	220°C		
Final Time:	1 minute		

10.1.2 MS Conditions:

Mass range:	m/z of 35 – 270 amu
Scan time:	0.5 minutes/scan
Source temperature:	230°C or according to manufacturer's specifications.

10.1.3 Velocity Concentrator Purge and Trap Conditions:

Purge time:	11 minutes
Dry purge:	2 minutes
Desorb preheat:	250°C
Desorb temp:	255°C
Desorb time:	2 minutes
Bake temp:	290°C
Bake time:	10 minutes

10.1.4 Encon Concentrator Purge and Trap Conditions:

Purge time:	11 minutes
Dry purge:	1 minute
Desorb preheat:	245°C
Desorb temp:	255°C
Desorb time:	1 minute
Bake temp:	270°C
Bake time:	10 minutes

10.2 Initial Calibration

10.2.1 The initial calibration is performed at a minimum of five (5) concentration levels listed in Table 4, the low level either at or below the reporting limit. The calibration is performed using instrument conditions listed in 10.1.

BFB must be analyzed prior to analysis of the initial calibration standards and must pass the criteria listed in Table 3. The mass spectrum of BFB should be acquired in the following manner:

(1) Three scans (the peak apex scan, the scan immediately preceding the apex and the scan immediately following the apex) are acquired and averaged.
(2) Background subtraction is performed using a single scan of no more than 20 scans prior to the elution of BFB.

This is done automatically with the EnviroQuant software.

10.2.1.1 Low Level/High Level Soil Curve on Centurion: To prepare a calibration standard, add the appropriate volume of standard solution(s) to a 50mL volumetric flask using a micro syringe. Remove the needle quickly and mix by inverting the flask 3 times. Pour several mLs of the aqueous standard into the waste vessel, then gently fill a 5mL syringe with standard and transfer to a 40mL VOA vial containing a magnetic stir bar. Load the vial onto autosampler.

10.2.1.2 Aqueous/High Level Soil Curve on Solatek or Centurion: To prepare a calibration standard, add the appropriate volume of standard solution(s) to a 100mL volumetric flask using a micro syringe. Remove the needle quickly and mix by inverting the flask 3 times. Pour several mLs of the aqueous standard into the waste vessel, and then gently fill a 40mL VOA vial to the top. Load the vial onto the autosampler.

10.2.2 Establish the GC operating conditions by loading the appropriate GC method. Typical instrument conditions are listed in Section 10.1. The same operating conditions are used for calibration and sample analyses. Create the analytical sequence using the HP EnviroQuant data acquisition software.

Relative Response Factors: The internal standard calibration technique is used. In each calibration standard, calculate the relative response factor for each analyte and the relative standard deviation (RSD) of the response factors using the EnviroQuant data processing software. The response factors are calculated using the areas of the characteristic (quantitation) ion for each target analyte and internal standard. The calculations are performed automatically using the EnviroQuant software, using the formulae listed in Alpha's Quality Manual.

10.2.3 Initial Calibration Criteria: The following sections outline the method acceptance criteria for an initial calibration curve. All criteria must be met for the calibration to be deemed acceptable, and for sample analysis to proceed. For MCP and CT projects see the related project specific addenda for modifications.

10.2.3.1 Relative Standard Deviation Criteria: If the RSD for each target analyte is less than or equal to 20%, then the response for this compound is considered linear over the calibration range and the mean calibration factor can be used to quantitate sample results. If the 20% RSD criterion is not met for an analyte linear regression may be used if $\mathbf{r^2} \geq 0.990$, weighted linear with a weighting factor of 1/SD2 and r > 0.995, or quadratic fit if $\mathbf{r^2} \geq 0.990$. A minimum of five points are required for linear fit and six points is required for quadratic fit. The calibration must be repeated for any compounds that fail. If more than 10% of the compounds exceed the 20% RSD limit and do not achieve the minimum correlation coefficient for alternative curve fits, sample analysis cannot proceed.

10.2.3.1.1 Percent Relative Error (%RE): For linear and quadratic fit compounds the %RE relative error must be calculated for the standard at or near the midpoint of the initial calibration and at the lowest level. The %RE between the calculated and expected amounts of an analyte should be ≤ 30% for all standards, otherwise recalibration is necessary.

10.2.4 Evaluation of Retention Times: The relative retention times used for identification of target analytes are +/- 0.06 RRT (Relative Retention Time) units, based on the most recent standard run. It has been determined that these limits work well, being wide enough to eliminate false-negative results while being tight enough to eliminate false positive results. Due to the selectivity of the mass spectrometer, compound identification is more definitive than when using a less selective detector.

10.2.5 Initial Calibration Verification: After each calibration and before the analysis of samples, an ICV must be analyzed at or near the midpoint of the curve. The ICV must be prepared using a different source than the Initial Calibration and must contain all target analytes. The percent recoveries must be between 70% and 130% for target analytes

except for “difficult” analytes (Table 7), which must exhibit percent recoveries between 40% and 160%. Corrective action is required if greater than 10% of all analytes are outside the prescribed criteria.

10.2.5.1 The ICV used for the initial calibration can be used as the continuing calibration verification. See Section 10.4 for criteria.

10.2.6 Additional considerations for SIM analysis

10.2.6.1 SIM may be useful for applications requiring quantitation limits below the normal range of electron impact quadrupole mass spectrometry, and both are allowable options for this method. Using the primary m/z for quantitation and at least one secondary m/z (or product ion) for confirmation, set up the descriptor windows based on their retention times. The selected m/z values should include any mass defect noted in the target analyte mass spectra acquired on the instrument, usually less than 0.2 amu. The dwell time for each ion may be automatically calculated by the instrument software or may be calculated based on the peak widths of the analytes of interest, the number of spectra needed to be acquired across each peak, and the number of concurrent ions that need to be acquired in each segment. When fewer m/z values are monitored in each segment, the acquisition time for each m/z can be increased, thereby increasing the sensitivity of the system. The total cycle time for the MS should be short enough that at least five, but preferably ten or more, spectra are acquired per chromatographic peak.

10.2.6.2 When compounds are analyzed in SIM mode, the following best practices are recommended:

10.2.6.2.1 Monitor at least two ions for each target analyte and use the mid-point of the calibration curve to establish proper ion ratios for each compound. The ratios of primary and secondary ions are the only qualitative tools available in SIM runs (other than RT), which increases their importance in proper identification. When interferences are expected or observed in a given matrix, acquiring multiple secondary ions may aid in qualitative identification.

10.2.6.2.2 Verify that all monitored ions are correctly integrated in order to achieve proper ion ratios. Update the primary/secondary ion ratios and reference mass spectra after each ICAL using a mid-range ICAL standard.

10.3 Equipment Operation and Sample Processing

The same GC, MS, and Purge and Trap conditions used for the initial calibration must be employed for sample analysis. After verification of system performance by analysis of BFB, the continuing calibration standard and method blank, samples are analyzed and processed as described below.

10.3.1 All samples are initially screened using Tekmar 7000 Headspace Autosamplers.

10.3.2 Retrieve sample VOA vials from the sample refrigerator just prior to loading onto the purge and trap system.

10.3.3 Aqueous samples:
Load the VOA vial directly on the sampling rack. Dilutions may be prepared volumetrically and poured into VOA vials ensuring there is no headspace left in the vial. The autosampler will then sample 10mL from the VOA vial.

10.3.4 Low level soil samples:

Low level soil sample should be shaken briefly to ensure that the stir bar is loose, and will spin on the autosampler unit. Take the low level VOA vial and place directly into the rack of the autosampler unit. Surrogate and internal standards are added automatically by the autosampler prior to sample purging.

10.3.5 High level soil samples:

Shake or vortex the sample for 15 seconds, ensuring the methanol has completely penetrated the soil in the vial. Let sample settle prior to taking methanol aliquot.

10.3.5.1 Through liquid path

Load a maximum of 860µL or appropriate dilution of the methanol into a half-full VOA vial. Fill the VOA vial up to the top with water and cap with no headspace. Allow the auto-sampler to sample 10mL out of the VOA vial which would be equivalent to injecting 100µL of the methanol extract. Prepare dilutions accordingly.

10.3.5.2 Through soil path

Into a VOA vial with a stir bar added, load 4.9mL of water plus a maximum of 100 µL of methanol or appropriate dilution of methanol extract from a 5mL luerlock syringe. Cap the vial and load onto the auto-sampler.

10.3.6 Qualitative Analysis:

10.3.6.1 The qualitative identification of each compound is based on retention time and on comparison of the sample mass spectrum with the reference mass spectrum. The reference mass spectrum must be generated by the laboratory on the same GC/MS system. The characteristic ions from the reference mass spectrum are defined to be the three ions of greatest relative intensity, or any ions over 30% relative intensity if less than three such ions occur in the reference spectrum. Compounds are identified as present when the following criteria are met:

10.3.6.1.1 The intensities of the characteristic ions of a compound maximize in the same scan or within one scan of each other. The EnviroQuant data system is configured to make this check.

10.3.6.1.2 The relative retention time (RRT) of the sample component is within ±0.06 RRT units of the RRT of the standard component.

10.3.6.1.3 The relative intensities of the characteristic ions agree within 30% of the relative intensities of these ions in the reference spectrum. (Example: For an ion with an abundance of 50% in the reference spectrum, the corresponding abundance in a sample spectrum can range between 20% and 80%.)

10.3.6.1.4 Structural isomers that produce very similar mass spectra should be identified as individual isomers if they have sufficiently different GC retention times. Sufficient GC resolution is achieved if the height of the valley between two isomer peaks is ≤ 50% of the average of the two peak heights. Otherwise, structural isomers are identified as isomeric pairs (i.e., m and p-xylene).

10.3.6.1.5 Identification is hampered when sample components are not resolved chromatographically and produce mass spectra containing ions contributed by more than one analyte. When gas chromatographic peaks obviously represent more than one sample component (i.e., a broadened peak with shoulder(s) or a valley between two or more maxima), appropriate selection of analyte spectra and background spectra is important.

10.3.6.1.6 Examination of extracted ion current profiles of appropriate ions can aid in the selection of spectra, and in qualitative identification of compounds. When analytes coelute (i.e., only one chromatographic peak is apparent), the identification criteria may be met, but each analyte spectrum will contain extraneous ions contributed by the coeluting compound.

10.3.6.2 For samples containing non-target analytes, a library search will be performed at client request. Compound identification will be classified as “tentative”, and the concentration will be reported as an estimate as no quantitative standards are run for these compounds.

10.3.6.2.1 Relative intensities of major ions in the reference spectrum (ions greater than 10% of the most abundant ion) are present in the sample spectrum.

10.3.6.2.2 The relative intensities of the major ions should agree within ±20%. (Example: For an ion with an abundance of 50% in the standard spectrum, the corresponding sample ion abundance must be between 30 and 70%.)

10.3.6.2.3 Molecular ions present in the reference spectrum are present in the sample spectrum. If the molecular ion is not present, carefully review library matches in order to avoid misidentification.

10.3.6.2.4 Ions present in the sample spectrum but not in the reference spectrum should be reviewed for possible background contamination or presence of coeluting compounds.

10.3.6.2.5 Ions present in the reference spectrum but not in the sample spectrum are reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting peaks.

10.3.6.2.6 Mass spectral library search algorithms typically assign a match factor to the peak identity based on comparison of an unknown mass spectrum to library spectra. For spectra meeting the above conditions, match factors greater than 0.85 (85%) may be considered confirming evidence. Where a known limitation in data collection is identified (e.g., the presence of an incompletely resolved spectral interference), a lower match factor may be considered confirmatory. For multiple library spectra with similar match factors (e.g., for hydrocarbons with low abundance molecular ions, or structural isomers), the tentative identification assigned to the unknown may be better represented as a more generic structure (e.g., unknown hydrocarbon, C4 benzene structural isomer).

10.3.7 Quantitative Analysis:

10.3.7.1 Quantitation of a target compound detected in a sample is performed automatically by the EnviroQuant data processing software, using the formulae found in Alpha’s Quality Manual. Either the average response factor or calibration curve will be used for sample quantitation, depending on how the particular analyte was processed in the initial calibration curve. If non-target

compounds are to be reported, the quantitation is performed automatically by the EnviroQuant software using the total area of the compound and the nearest internal standard, and assuming a relative response factor of 1.0.

10.4 Continuing Calibration

Calibration verification consists of three steps that are performed at the beginning of each 12-hour analytical shift. For MCP and CT projects see the related project specific addenda for modifications.

10.4.1 Prior to the analysis of samples or calibration standards, inject or purge 1 µL (50 ng) of the 4-Bromofluorobenzene standard (Section 8.4.4) into the GC/MS system. The resultant mass spectra for the BFB must meet the criteria given in Table 3 before sample analysis begins.

10.4.2 The initial calibration curve for each compound of interest must be verified once every 12 hours prior to sample analysis. This is accomplished by analyzing the continuing calibration check standard (Section 8.5.3).

10.4.3 A method blank must be analyzed prior to any samples, typically immediately following the continuing calibration check standard, to ensure that the analytical system is free of contaminants. The method blank must not contain any target analytes at or above the required compound reporting limits.

10.4.4 The percent difference or drift for each target analyte must be less than or equal to 20% (30% for all SIM compounds). If greater than 20% of target analytes exceed the %D criteria corrective action must be taken prior to the analysis of samples. If less than or equal to 20% of compounds exceed the criteria, corrective action is not required.

10.4.5 Internal Standard Retention Time:

The absolute retention times of the internal standards in the calibration verification standard are evaluated after data acquisition. If the absolute retention time for any internal standard changes by more than 30 seconds from that in the mid-point standard level of the most recent initial calibration sequence, then the chromatographic system must be inspected for malfunctions and corrections must be made, as required. When corrections are made, reanalysis of samples analyzed while the system was malfunctioning is required.

10.4.6 Internal Standard Response:

If the area for any of the internal standards in the calibration verification standard changes by a factor of two (50% to 200%) from that in the mid-point standard level of the most recent initial calibration sequence, the mass spectrometer must be inspected for malfunctions and corrections must be made, as appropriate. When corrections are made, re-analysis of samples analyzed while the system was malfunctioning is required.

10.5 Preventive Maintenance

Routine preventive maintenance should be performed on the analytical system. This includes replacement of GC septa and periodic rinsing or replacement of purge and trap tubes and sparge needles. The trap should be replaced every six months or sooner if performance criteria

cannot be met. Periodic cleaning (typically twice per year) of the mass spectrometer ion source is required. More frequent source cleaning may be needed, especially if dirty samples are analyzed.

If system performance deteriorates, additional maintenance may be required. This includes replacement of injector ports and seals, clipping several inches off of the front end of the GC column, or in extreme cases the replacement of the GC column. Flushing or replacement of purge and trap lines may be necessary if they become contaminated or develop active sites.

Perform routine preventative maintenance as described throughout this SOP. Record all maintenance in the instrument logbook.

11. Data Evaluation, Calculations and Reporting

11.1 LIMS Data Corrections

Please note that the Laboratory Information Management System (LIMS) automatically adjusts soil sample results to account for the % Total Solids of the sample (as determined per Alpha SOP/07-38) and the methanol preservation dilution effect.

11.2 Data Calculations

11.2.1 Results of Aqueous Sample Analysis:

$$Concentration\ (ug/L) = \frac{(Conc.)\ (Vp)\ (DF)}{(Vs)}$$

where:

Conc. = On-column concentration obtained from the quantitation report.
Vp = Volume purged, 10 mL is standard
Vs = Volume of sample purged
DF = Dilution factor, for manually prepared dilutions, not instrumental "dilutions".

11.2.2 Results of Sediment/Soil, Sludge, and Waste Analysis:

All solids including soils, sediments, and sludges must be reported on a dry-weight basis.

11.2.2.1 Low-Level Samples:

$$Concentration\ (ug/Kg) = \frac{(Conc.)\ (Vp)\ (DF)}{(W)\ (\%S)}$$

11.2.2.2 High-Level Samples:

$$\text{Concentration (ug/Kg)} = \frac{\text{(Conc.) (Vp) (5000) (DF)}}{\text{(W) (Ve) (\%S)}}$$

where:

Conc. = On-column concentration obtained from the quantitation report.
DF = Dilution factor, for manually prepared dilutions, not instrumental "dilutions".
Ve = Extract volume, mL
Vp = Volume purged, 5 mL is standard
W = Aliquot of sample (wet), g
%S = Sample % solid
5000 = Constant representing the final volume of the methanol extraction.

11.2.2.2.1 High-Level Samples Corrected for Total Water/Solvent Mixture (V_t):

Samples that are extracted prior to analysis in a water miscible solvent such as methanol are diluted by the total volume of the water/solvent mixture. The total mixture volume can only be calculated based on the sample moisture present as determined by the % moisture calculation.

$$\text{\% moisture} = \frac{\text{g of sample – g of dry sample}}{\text{g of sample}} \times 100$$

$$V_t = \frac{\text{[mL of solvent + (\%moisture x g of sample)]}}{100} \times 1000\text{mL/mL}$$

The calculated V_t value is now added to the volume of methanol in the sample (typically 5000µL), and the corrected concentration is calculated using the equation below:

$$\text{Corrected concentration (mg/Kg)} = \frac{\text{(Conc.) } (V_t \text{ + methanol vol.) (Vp) (DF)}}{\text{(W) (Ve) (\%S)}}$$

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

All batch and sample specific QC criteria outlined in section 10 are evaluated by the analyst prior to approval of the data. When any QC criteria fail, the cause for the failure must be identified and corrected. This may include instrument recalibration followed by sample reanalysis, sample cleanup, or sample re-extraction. If it is determined that the failure is due to sample matrix effects, a project narrative report is written by the analyst for inclusion in the data report. If there is insufficient sample volume to perform the re-analysis for confirmation, this is also noted in the narrative and included in the client report.

13. Method Performance

13.1 Detection Limit Study (DL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

The laboratory follows the procedure to determine the DL, LOD, and/or LOQ as outlined in Alpha SOP/1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

Refer to Alpha SOP/1739 for further information regarding IDC/DOC Generation.

13.2.1 Initial (IDC)

The analyst must make an initial, one-time, demonstration of the ability to generate acceptable accuracy and precision with this method, prior to the processing of any samples.

13.2.2 Continuing (DOC)

The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

Refer to Alpha's Chemical Hygiene Plan and Waste Management and Disposal SOP for further pollution prevention and waste management information.

15. Referenced Documents

Chemical Hygiene Plan

SOP/1732 DL/LOD/LOQ Generation

SOP/1739 IDC/DOC Generation

SOP/1728 Waste Management and Disposal SOP

16. Attachments

Table 1: 8260 REPORTING LIMITS

Table 2: 8260 QC ACCEPTANCE CRITERIA

Table 3: BFB TUNING CRITERIA

Table 4: STANDARD SOLUTIONS and ICAL Levels

Table 5: 8260D Volatile Internal Standards with Corresponding Target Compounds and Surrogates Assigned for Quantitation

Table 6: 8260D Quantitation Ions

Table 7: Difficult Analytes

Table 8: ICAL Low Point re-quantitation ranges

Table 1

Standard Reported Detection Limits

US EPA METHOD 8260D and 5035A/8260D

Analyte	Recommended Minimum Response Factor	RDL (µg/L)	RDL(µg/KG)(1)	RDL (µg/KG) (2)
Acetone (3,4,5)	0.01	5.0	25	1250
Acrolein (5)		5.0	25	1250
Acrylonitrile (3,4)		5.0	4	200
Allyl Chloride (7)		N/A	5	250
Benzene (3,4,5)	0.2	0.5	0.5	25
Bromobenzene (3,4)		2.5	2	100
Bromochloromethane (3,4,5)	0.1	2.5	2	100
Bromodichloromethane (3,4,5)	0.300	0.5	0.5	25
Bromoform (3,4,5)	0.100	2.0	4	200
Bromomethane (3,4,5)	0.01	1.0	2	100
2-Butanone (3,4,5)	0.01	5.0	10	500
Butyl acetate (7)		N/A	5	50
n-Butylbenzene (3,4)		0.5	1	50
sec-Butylbenzene (3,4)		0.5	1	50
tert-Butylbenzene (3,4)		2.5	2	100
Carbon disulfide (3,4,5)	0.100	5.0	10	500
Carbon tetrachloride (3,4,5)	0.100	0.5	1	50
Chlorobenzene (3,4,5)	0.400	0.5	0.5	25
Chlorodifluoromethane (7)		N/A	5	250
Chloroethane (3,4,5)	0.01	1.0	2	100
2-Chloroethylvinyl ether (3)		10.0	20	1000
Chloroform (3,4,5)	0.300	0.75	1.5	75
Chloromethane (3,4,5)	0.01	2.5	4	200
o-Chlorotoluene (3,4)		2.5	2	100
Cyclohexane (5)	0.01	10	10	500
Cyclohexanone		10	20	1000
p-Chlorotoluene (3,4)		2.5	2	100
cis-Decahydronaphthalene (7)		N/A	5	250
trans-Decahydronaphthalene (7)		N/A	5	250
n-Decane (7)		N/A	5	250
Dibromochloromethane (3,4,5)	0.200	0.5	1	50
1,2-Dibromo-3-chloropropane (3,4,5)	0.01	2.5	3	150
1,2-Dibromoethane (3,4,5)	0.200	2.0	1	50
Dibromomethane (3,4)		5.0	2	100
1,2-Dichlorobenzene (3,4,5)	0.600	2.5	2	100
1,3-Dichlorobenzene (3,4,5)	0.500	2.5	2	100
1,4-Dichlorobenzene (3,4,5)	0.600	2.5	2	100
1,4-Dichlorobutane (3,4)		5.0	10	500
trans-1,4-Dichloro-2-butene (3,4)		2.5	5	250

Table 1 (continued)

Standard Reported Detection Limits

US EPA METHOD 8260D and 5035A/8260D

Analyte	Recommended Minimum Response Factor	RDL (µg/L)	RDL(µg/KG)(1)	RDL (µg/KG) (2)
Dichlorodifluoromethane (3,4,5)	0.01	5.0	10	500
1,1-Dichloroethane (3,4,5)	0.300	0.75	1	50
1,2-Dichloroethane (3,4,5)	0.07	0.5	1	50
1,1-Dichloroethene (3,4,5)	0.06	0.5	1	50
cis-1,2-Dichloroethene (3,4,5)	0.200	0.5	1	50
trans-1,2-Dichloroethene (3,4,5)	0.100	0.75	1.5	75
1,2-Dichloropropane (3,4,5)	0.200	1.75	1	50
1,3-Dichloropropane (3,4)		2.5	2	100
2,2-Dichloropropane (3,4)		2.5	2	100
1,1-Dichloropropene (3,4)		2.5	0.5	25
cis-1,3-Dichloropropene (3,4,5)	0.300	0.5	0.5	25
p-Diethylbenzene (4)		2.0	2	100
Diisopropyl Ether (6)		2.0	2	100
1,4-Dioxane (5) (non-SIM)		250.0	80	4000
trans-1,3-Dichloropropene (3,4,5)	0.300	0.5	1	50
Ethanol (7)		250.0	1000	50000
Ethyl acetate		10.0	10	500
Ethylbenzene (3,4,5)	0.400	0.5	1	50
Ethyl ether (3,4)		2.5	2	100
4-Ethyltoluene (4)		2.0	2	100
Ethyl methacrylate (3,4)		5.0	10	500
Ethyl-Tert-Butyl-Ether (6)		2.0	2	100
Freon-113 (5)	0.05	10.0	4	200
n-Heptane (7)		N/A	5	250
Hexachlorobutadiene (3,4)		0.5	4	200
Hexachloroethane (7)		N/A	5	250
Hexane		1.0	5	250
2-Hexanone (3,4,5)	0.01	5.0	10	500
Iodomethane		5.0	10	500
Isopropyl Alcohol (IPA)		100.0	100	5000
Isopropylbenzene (3,4,5)	0.400	0.5	1	50
p-Isopropyltoluene (3,4)		0.5	1	50
Limonene (7)		N/A	5	250
Methyl Acetate (5)	0.01	10.0	4	200
Methylene chloride (3,4,5)	0.01	3.0	5	250
Methyl Cyclohexane (5)	0.05	10.0	4	200
Methyl isothiocyanate (7)		N/A	5	250
Methyl Methacrylate		2.5	5	250
4-Methyl-2-pentanone (3,4,5)	0.03	5.0	10	500

Methyl-tert-butyl-ether (3,4,5)	0.100	1.0	2	100
Naphthalene (3,4)		2.5	4	200
Nitrobenzene (7)		N/A	5	250
2-Nitropropane (7)		N/A	5	250
n-Nonane (7)		N/A	5	250
n-Octane (7)		N/A	5	250
n-Butanol (5)		100.0	300	15000
n-Propylbenzene (3,4)		0.5	1	50
n-Propyl bromide		5.0	N/A	N/A
Pentachloroethane		2.0	N/A	N/A
Styrene (3,4,5)	0.200	1.0	1	50
Tert-Butyl Alcohol (5)		10.0	20	1000
Tertiary-Amyl Methyl Ether (6)		2.0	2	100
1,1,1,2-Tetrachloroethane (3,4)		0.5	0.5	25
1,2,4,5-Tetramethylbenzene (4)		2.0	2	100
1,1,2,2-Tetrachloroethane (3,4,5)	0.200	0.5	0.5	25
Tetrachloroethene (3,4,5)	0.100	0.5	0.5	25
Tetrahydrofuran (3)		5.0	4	200
Toluene (3,4,5)	0.300	0.75	1	50
1,2,3-Trichlorobenzene (3,4,5)	0.400	2.5	2	100
1,2,4-Trichlorobenzene (3,4,5)	0.400	2.5	2	100
1,3,5-Trichlorobenzene (6)		2.0	2	100
1,1,1-Trichloroethane (3,4,5)	0.05	0.5	0.5	25
1,1,2-Trichloroethane (3,4,5)	0.200	0.75	1	50
Trichloroethene (3,4,5)	0.200	0.5	0.5	25
Trichlorofluoromethane (3,4,5)	0.01	2.5	4	200
1,2,3-Trichloropropane (3,4)		5.0	10	500
1,2,4-Trimethylbenzene (3,4)		2.5	2	100
1,3,5-Trimethylbenzene (3,4)		2.5	2	100
n-Undecane (7)		N/A	5	250
Vinyl acetate (3,4)		5.0	10	500
Vinyl chloride (3,4,5)	0.01	1.0	1	50
m/p-Xylenes (3,4,5)	0.200	1.0	2	100
o-Xylene (3,4,5)	0.200	1.0	1	50
Isobutyl Alcohol		10.0	N/A	N/A
2-Butanol		25.0	N/A	N/A
4-penten-2-ol		100.0	N/A	N/A
2-methyl-2-butanol		25.0	N/A	N/A
4-methyl-2-pentanol		25.0	N/A	N/A
Chloropicrin		20.0	100	5000
Halothane		2.5	10	500
1,4-Dioxane (5) SIM		3.0	N/A	N/A
1,1,2,2-Tetrachloroethane SIM		0.1	N/A	N/A

(1) Detection Limits are for Low-level Aqueous preserved samples.

(2) Detection Limits are for High-level Methanol preserved samples.
(3) Analyte reported by standard 8260 reporting list.
(4) Analyte reported by New York TCL reporting list.
(5) Analyte reported by New Jersey TCL reporting list.
(6) Analyte reported for New Hampshire in addition to standard 8260 reporting list.
(7) Analyte only reported for New York TCL report upon client request.
(8) Note: Reporting Limits are based on standard 8260 reporting list, RL's may vary for NY and NJ reporting lists.

Table 2

QUALITY CONTROL ACCEPTANCE CRITERIA

Surrogate Spike Percent Recovery	Aqueous Limits		Soil Limits	
	Lower Control Limit	Upper Control Limit	Lower Control Limit	Upper Control Limit
1,2-Dichloroethane-d_4	70%	130%	70%	130%
4-Bromofluorobenzene	70%	130%	70%	130%
Toluene-d_8	70%	130%	70%	130%
Dibromofluoromethane	70%	130%	70%	130%

Table 3

BFB (4-BROMOFLUOROBENZENE) MASS INTENSITY CRITERIA

m/z	Required Intensity (relative abundance)
50	15 to 40% of m/z 95 (not required)
75	30 to 60% of m/z 95 (not required)
95	50 to 200% of m/z 174
96	5 to 9% of m/z 95
173	Less than 2% of m/z 174
174	50 to 200% of m/z 95
175	5 to 9% of m/z 174
176	95% to 105% of m/z 174
177	5 to 10% of m/z 176

Table 4

Stock Standard Concentrations and Suggested Calibration Concentration Levels

Soil	Stock (µg/mL)	Level 0 (ug/kg)	Level 1 (ug/kg)	Level 1.5 (ug/kg)	Level 2 (ug/kg)	Level 3 (ug/kg)	Level 4 (ug/kg)	Level 5 (ug/kg)	Level 6 (ug/kg)	Level 7 (ug/kg)	Level 8 (ug/kg)
Fluorobenzene	2500	20	20	20	20	20	20	20	20	20	20
Dichlorodifluoromethane	2000	0.5	1	2	4	20	40	60	100	200	300
Chlorodifluoromethane	2000	0.5	1	2	4	20	40	60	100	200	300
Chloromethane	2000	0.5	1	2	4	20	40	60	100	200	300
Vinyl chloride	2000	0.5	1	2	4	20	40	60	100	200	300
Bromomethane	2000	0.5	1	2	4	20	40	60	100	200	300
Chloroethane	2000	0.5	1	2	4	20	40	60	100	200	300
Trichlorofluoromethane	2000	0.5	1	2	4	20	40	60	100	200	300
Ethyl ether	2000	0.5	1	2	4	20	40	60	100	200	300
Ethanol	2000	N/A	20	N/A	80	200	400	600	1000	3000	4000
1,1-Dichloroethene	2000	0.5	1	2	4	20	40	60	100	200	300
Carbon disulfide	2000	0.5	1	2	4	20	40	60	100	200	300
Freon-113	2000	0.5	1	2	4	20	40	60	100	200	300
Iodomethane	2000	0.5	1	2	4	20	40	60	100	200	300
Acrolein	2000	0.5	1	2	4	20	40	60	100	200	300
Allyl chloride	2000	0.5	1	2	4	20	40	60	100	200	300
Methylene chloride	2000	0.5	1	2	4	20	40	60	100	200	300
Isopropyl alcohol	2000	N/A	20	N/A	80	200	400	600	1000	3000	4000
Acetone	2000	0.5	1	2	4	20	40	60	100	200	300
trans-1,2-Dichloroethene	2000	0.5	1	2	4	20	40	60	100	200	300
Methyl acetate	2000	0.5	1	2	4	20	40	60	100	200	300
Hexane	2000	0.5	1	2	4	20	40	60	100	200	300
Methyl tert-butyl ether	2000	0.5	1	2	4	20	40	60	100	200	300
tert-Butyl alcohol	2000	2.5	5	10	20	100	200	300	500	1000	1500
Diisopropyl ether	2000	0.5	1	2	4	20	40	60	100	200	300
1,1-Dichloroethane	2000	0.5	1	2	4	20	40	60	100	200	300
Halothane	2000	0.5	1	2	4	20	40	60	100	200	300
Acrylonitrile	2000	0.5	1	2	4	20	40	60	100	200	300
Ethyl tert-butyl ether	2000	0.5	1	2	4	20	40	60	100	200	300
Vinyl acetate	2000	0.5	1	2	4	20	40	60	100	200	300
cis-1,2-Dichloroethene	2000	0.5	1	2	4	20	40	60	100	200	300
2,2-Dichloropropane	2000	0.5	1	2	4	20	40	60	100	200	300
Bromochloromethane	2000	0.5	1	2	4	20	40	60	100	200	300
Cyclohexane	2000	0.5	1	2	4	20	40	60	100	200	300

Soil	Stock (µg/mL)	Level 0 (ug/kg)	Level 1 (ug/kg)	Level 1.5 (ug/kg)	Level 2 (ug/kg)	Level 3 (ug/kg)	Level 4 (ug/kg)	Level 5 (ug/kg)	Level 6 (ug/kg)	Level 7 (ug/kg)	Level 8 (ug/kg)
Chloroform	2000	0.5	1	2	4	20	40	60	100	200	300
Ethyl acetate	2000	0.5	1	2	4	20	40	60	100	200	300
Carbon tetrachloride	2000	0.5	1	2	4	20	40	60	100	200	300
Tetrahydrofuran	2000	0.5	1	2	4	20	40	60	100	200	300
Dibromofluoromethane	2500	20	20	20	20	20	20	20	20	20	20
1,1,1-Trichloroethane	2000	0.5	1	2	4	20	40	60	100	200	300
2-Butanol	2000	N/A	20	N/A	80	200	400	600	1000	3000	4000
2-Butanone	2000	0.5	1	2	4	20	40	60	100	200	300
1,1-Dichloropropene	2000	0.5	1	2	4	20	40	60	100	200	300
Heptane	2000	0.5	1	2	4	20	40	60	100	200	300
Benzene	2000	0.5	1	2	4	20	40	60	100	200	300
tert-Amyl methyl ether	2000	0.5	1	2	4	20	40	60	100	200	300
1,2-Dichloroethane-d4	2500	20	20	20	20	20	20	20	20	20	20
1,2-Dichloroethane	2000	0.5	1	2	4	20	40	60	100	200	300
Isobutyl alcohol	2000	N/A	20	N/A	80	200	400	600	1000	3000	4000
2-Methyl-2-butanol	2000	2.5	5	10	20	100	200	300	500	1000	1500
Methyl cyclohexane	2000	0.5	1	2	4	20	40	60	100	200	300
Trichloroethene	2000	0.5	1	2	4	20	40	60	100	200	300
n-Butanol	2000	N/A	20	N/A	80	200	400	600	1000	3000	4000
Dibromomethane	2000	0.5	1	2	4	20	40	60	100	200	300
1,2-Dichloropropane	2000	0.5	1	2	4	20	40	60	100	200	300
4-penten-2-ol	2000	2.5	5	10	20	100	200	300	500	1000	1500
2-Chloroethyl vinyl ether	2000	0.5	1	2	4	20	40	60	100	200	300
Bromodichloromethane	2000	0.5	1	2	4	20	40	60	100	200	300
Ethyl acrylate	2000	0.5	1	2	4	20	40	60	100	200	300
Methyl methacrylate	2000	0.5	1	2	4	20	40	60	100	200	300
1,4-Dioxane	2000	N/A	40	80	200	1000	2000	3000	5000	10000	15000
cis-1,3-Dichloropropene	2000	0.5	1	2	4	20	40	60	100	200	300
Chlorobenzene-d5	2500	20	20	20	20	20	20	20	20	20	20
Octane	2000	0.5	1	2	4	20	40	60	100	200	300
Toluene-d8	2500	20	20	20	20	20	20	20	20	20	20
Toluene	2000	0.5	1	2	4	20	40	60	100	200	300
4-Methyl-2-pentanone	2000	0.5	1	2	4	20	40	60	100	200	300
Tetrachloroethene	2000	0.5	1	2	4	20	40	60	100	200	300
2-Nitropropane	2000	0.5	1	2	4	20	40	60	100	200	300

Soil	Stock (µg/mL)	Level 0 (ug/kg)	Level 1 (ug/kg)	Level 1.5 (ug/kg)	Level 2 (ug/kg)	Level 3 (ug/kg)	Level 4 (ug/kg)	Level 5 (ug/kg)	Level 6 (ug/kg)	Level 7 (ug/kg)	Level 8 (ug/kg)
Chloropicrin	2000	N/A	50	N/A	100	200	300	400	500	600	700
trans-1,3-Dichloropropene	2000	0.5	1	2	4	20	40	60	100	200	300
Methyl isothiocyanate	2000	0.5	1	2	4	20	40	60	100	200	300
4-Methyl-2-pentanol	2000	N/A	20	N/A	80	200	400	600	1000	3000	4000
Ethyl methacrylate	2000	0.5	1	2	4	20	40	60	100	200	300
1,1,2-Trichloroethane	2000	0.5	1	2	4	20	40	60	100	200	300
Chlorodibromomethane	2000	0.5	1	2	4	20	40	60	100	200	300
1,3-Dichloropropane	2000	0.5	1	2	4	20	40	60	100	200	300
1,2-Dibromoethane	2000	0.5	1	2	4	20	40	60	100	200	300
n-Butyl Acetate	2000	0.5	1	2	4	20	40	60	100	200	300
2-Hexanone	2000	0.5	1	2	4	20	40	60	100	200	300
Nonane	2000	0.5	1	2	4	20	40	60	100	200	300
Chlorobenzene	2000	0.5	1	2	4	20	40	60	100	200	300
Ethylbenzene	2000	0.5	1	2	4	20	40	60	100	200	300
1,1,1,2-Tetrachloroethane	2000	0.5	1	2	4	20	40	60	100	200	300
p/m Xylene	2000	1	2	4	8	40	80	120	200	400	600
o Xylene	2000	1	2	4	8	40	80	120	200	400	600
Styrene	2000	1	2	4	8	40	80	120	200	400	600
1,4-Dichlorobenzene-d4	2500	20	20	20	20	20	20	20	20	20	20
Bromoform	2000	0.5	1	2	4	20	40	60	100	200	300
Butyl acrylate	2000	0.5	1	2	4	20	40	60	100	200	300
Isopropylbenzene	2000	0.5	1	2	4	20	40	60	100	200	300
4-Bromofluorobenzene	2500	20	20	20	20	20	20	20	20	20	20
Bromobenzene	2000	0.5	1	2	4	20	40	60	100	200	300
Decane	2000	0.5	1	2	4	20	40	60	100	200	300
n-Propylbenzene	2000	0.5	1	2	4	20	40	60	100	200	300
1,4-Dichlorobutane	2000	0.5	1	2	4	20	40	60	100	200	300
1,1,2,2-Tetrachloroethane	2000	0.5	1	2	4	20	40	60	100	200	300
4-Ethyltoluene	2000	0.5	1	2	4	20	40	60	100	200	300
2-Chlorotoluene	2000	0.5	1	2	4	20	40	60	100	200	300
1,3,5-Trimethylbenzene	2000	0.5	1	2	4	20	40	60	100	200	300
1,2,3-Trichloropropane	2000	0.5	1	2	4	20	40	60	100	200	300
trans-1,4-Dichloro-2-butene	2000	0.5	1	2	4	20	40	60	100	200	300
4-Chlorotoluene	2000	0.5	1	2	4	20	40	60	100	200	300

Soil	Stock (µg/mL)	Level 0 (ug/kg)	Level 1 (ug/kg)	Level 1.5 (ug/kg)	Level 2 (ug/kg)	Level 3 (ug/kg)	Level 4 (ug/kg)	Level 5 (ug/kg)	Level 6 (ug/kg)	Level 7 (ug/kg)	Level 8 (ug/kg)
tert-Butylbenzene	2000	0.5	1	2	4	20	40	60	100	200	300
Pentachloroethane	2000	0.5	1	2	4	20	40	60	100	200	300
n-Butyl methacrylate	2000	0.5	1	2	4	20	40	60	100	200	300
1,2,4-Trimethylbenzene	2000	0.5	1	2	4	20	40	60	100	200	300
Limonene	2000	0.5	1	2	4	20	40	60	100	200	300
sec-Butylbenzene	2000	0.5	1	2	4	20	40	60	100	200	300
p-Isopropyltoluene	2000	0.5	1	2	4	20	40	60	100	200	300
1,3-Dichlorobenzene	2000	0.5	1	2	4	20	40	60	100	200	300
1,4-Dichlorobenzene	2000	0.5	1	2	4	20	40	60	100	200	300
trans-Decahydronaphthalene	2000	0.5	1	2	4	20	40	60	100	200	300
Undecane	2000	0.5	1	2	4	20	40	60	100	200	300
p-Diethylbenzene	2000	0.5	1	2	4	20	40	60	100	200	300
n-Butylbenzene	2000	0.5	1	2	4	20	40	60	100	200	300
Hexachloroethane	2000	0.5	1	2	4	20	40	60	100	200	300
1,2-Dichlorobenzene	2000	0.5	1	2	4	20	40	60	100	200	300
cis-Decahydronaphthalene	2000	0.5	1	2	4	20	40	60	100	200	300
1,2,4,5-Tetramethylbenzene	2000	0.5	1	2	4	20	40	60	100	200	300
1,2-Dibromo-3-chloropropane	2000	0.5	1	2	4	20	40	60	100	200	300
1,3,5-Trichlorobenzene	2000	0.5	1	2	4	20	40	60	100	200	300
Nitrobenzene	2000	0.5	1	2	4	20	40	60	100	200	300
Hexachlorobutadiene	2000	0.5	1	2	4	20	40	60	100	200	300
1,2,4-Trichlorobenzene	2000	0.5	1	2	4	20	40	60	100	200	300
Naphthalene	2000	0.5	1	2	4	20	40	60	100	200	300
1,2,3-Trichlorobenzene	2000	0.5	1	2	4	20	40	60	100	200	300
1,3-Dioxolane	2000	N/A	25	N/A	50	100	250	500	1000	1500	2000

Stock Standard Concentrations and Suggested Calibration Concentration Levels

Water	Stock (µg/mL)	Level 11 (ug/L)	Level 1 (ug/L)	Level 2 (ug/L)	Level 3 (ug/L)	Level 4 (ug/L)	Level 5 (ug/L)	Level 6 (ug/L)	Level 7 (ug/L)	Level 8 (ug/L)	Level 9 (ug/L)	Level 10 (ug/L)
							Optional		Optional		Optional	
Fluorobenzene	2500	10	10	10	10	10	10	10	10	10	10	10
Dichlorodifluoromethane	2000		0.5	2	10	30	50	80	100	120	160	200
Chloromethane	2000		0.5	2	10	30	50	80	100	120	160	200
Vinyl chloride	2000	0.19	0.5	2	10	30	50	80	100	120	160	200
Bromomethane	2000		0.5	2	10	30	50	80	100	120	160	200
Chloroethane	2000		0.5	2	10	30	50	80	100	120	160	200
Trichlorofluoromethane	2000		0.5	2	10	30	50	80	100	120	160	200
Ethyl ether	2000		0.5	2	10	30	50	80	100	120	160	200
Ethanol	2000		0.5	2	10	30	50	80	100	120	160	200
1,1-Dichloroethene	2000		0.5	2	10	30	50	80	100	120	160	200
Carbon disulfide	2000		0.5	2	10	30	50	80	100	120	160	200
Freon-113	2000		0.5	2	10	30	50	80	100	120	160	200
Iodomethane	2000		0.5	2	10	30	50	80	100	120	160	200
Acrolein	2000		0.5	2	10	30	50	80	100	120	160	200
Methylene chloride	2000		0.5	2	10	30	50	80	100	120	160	200
Isopropyl alcohol	2000		2.5	10	50	150	250	400	500	600	800	1000
Acetone	2000		0.5	2	10	30	50	80	100	120	160	200
trans-1,2-Dichloroethene	2000		0.5	2	10	30	50	80	100	120	160	200
Methyl acetate	2000		0.5	2	10	30	50	80	100	120	160	200
Methyl tert-butyl ether	2000		0.5	2	10	30	50	80	100	120	160	200
tert-Butyl alcohol	2000		2.5	10	50	150	250	400	500	600	800	1000
Diisopropyl ether	2000		0.5	2	10	30	50	80	100	120	160	200
1,1-Dichloroethane	2000		0.5	2	10	30	50	80	100	120	160	200
Halothane	2000		0.5	2	10	30	50	80	100	120	160	200
Acrylonitrile	2000		0.5	2	10	30	50	80	100	120	160	200
Ethyl tert-butyl ether	2000		0.5	2	10	30	50	80	100	120	160	200
Vinyl acetate	2000		0.5	2	10	30	50	80	100	120	160	200
cis-1,2-Dichloroethene	2000		0.5	2	10	30	50	80	100	120	160	200
2,2-Dichloropropane	2000		0.5	2	10	30	50	80	100	120	160	200
Bromochloromethane	2000		0.5	2	10	30	50	80	100	120	160	200
Cyclohexane	2000		0.5	2	10	30	50	80	100	120	160	200
Chloroform	2000		0.5	2	10	30	50	80	100	120	160	200
Ethyl acetate	2000		0.5	2	10	30	50	80	100	120	160	200

Water	Stock (µg/mL)	Level 11 (ug/L)	Level 1 (ug/L)	Level 2 (ug/L)	Level 3 (ug/L)	Level 4 (ug/L)	Level 5 (ug/L)	Level 6 (ug/L)	Level 7 (ug/L)	Level 8 (ug/L)	Level 9 (ug/L)	Level 10 (ug/L)
							Optional		Optional		Optional	
Carbon tetrachloride	2000	0.19	0.5	2	10	30	50	80	100	120	160	200
Tetrahydrofuran	2000		0.5	2	10	30	50	80	100	120	160	200
Dibromofluoromethane	2500	10	10	10	10	10	10	10	10	10	10	10
1,1,1-Trichloroethane	2000		0.5	2	10	30	50	80	100	120	160	200
2-Butanol	2000		2.5	10	50	150	250	400	500	600	800	1000
2-Butanone	2000		0.5	2	10	30	50	80	100	120	160	200
1,1-Dichloropropene	2000		0.5	2	10	30	50	80	100	120	160	200
Benzene	2000	0.19	0.5	2	10	30	50	80	100	120	160	200
tert-Amyl methyl ether	2000		0.5	2	10	30	50	80	100	120	160	200
1,2-Dichloroethane-d4	2500	10	10	10	10	10	10	10	10	10	10	10
1,2-Dichloroethane	2000		0.5	2	10	30	50	80	100	120	160	200
Isobutyl alcohol	2000		2.5	10	50	150	250	400	500	600	800	1000
2-Methyl-2-butanol	2000		2.5	10	50	150	250	400	500	600	800	1000
Methyl cyclohexane	2000		0.5	2	10	30	50	80	100	120	160	200
Trichloroethene	2000	0.19	0.5	2	10	30	50	80	100	120	160	200
n-Butanol	2000		2.5	10	50	150	250	400	500	600	800	1000
Dibromomethane	2000		0.5	2	10	30	50	80	100	120	160	200
1,2-Dichloropropane	2000		0.5	2	10	30	50	80	100	120	160	200
4-penten-2-ol	2000		2.5	10	50	150	250	400	500	600	800	1000
2-Chloroethyl vinyl ether	2000		0.5	2	10	30	50	80	100	120	160	200
Bromodichloromethane	2000		0.5	2	10	30	50	80	100	120	160	200
Ethyl acrylate	2000		0.25	1	5	15	25	40	50	60	80	100
Methyl methacrylate	2000		0.25	1	5	15	25	40	50	60	80	100
1,4-Dioxane	2000		100	400	500	600	1000	800	1000	1200	1600	2000
cis-1,3-Dichloropropene	2000		0.5	2	10	30	50	80	100	120	160	200
Chlorobenzene-d5	2500	10	10	10	10	10	10	10	10	10	10	10
Toluene-d8	2500	10	10	10	10	10	10	10	10	10	10	10
Toluene	2000		0.5	2	10	30	50	80	100	120	160	200
4-Methyl-2-pentanone	2000		0.5	2	10	30	50	80	100	120	160	200
Tetrachloroethene	2000		0.5	2	10	30	50	80	100	120	160	200
Chloropicrin	2000		30	50	80	120	200	160	400	200	320	400
trans-1,3-Dichloropropene	2000		0.5	2	10	30	50	80	100	120	160	200
4-Methyl-2-pentanol	2000		2.5	10	50	150	250	400	500	600	800	1000

Water	Stock (µg/mL)	Level 11 (ug/L)	Level 1 (ug/L)	Level 2 (ug/L)	Level 3 (ug/L)	Level 4 (ug/L)	Level 5 (ug/L)	Level 6 (ug/L)	Level 7 (ug/L)	Level 8 (ug/L)	Level 9 (ug/L)	Level 10 (ug/L)
							Optional		Optional		Optional	
Ethyl methacrylate	2000		0.5	2	10	30	50	80	100	120	160	200
1,1,2-Trichloroethane	2000		0.5	2	10	30	50	80	100	120	160	200
Chlorodibromomethane	2000		0.5	2	10	30	50	80	100	120	160	200
1,3-Dichloropropane	2000		0.5	2	10	30	50	80	100	120	160	200
1,2-Dibromoethane	2000		0.5	2	10	30	50	80	100	120	160	200
2-Hexanone	2000		0.5	2	10	30	50	80	100	120	160	200
Chlorobenzene	2000		0.5	2	10	30	50	80	100	120	160	200
Ethylbenzene	2000		0.5	2	10	30	50	80	100	120	160	200
1,1,1,2-Tetrachloroethane	2000		0.5	2	10	30	50	80	100	120	160	200
p/m Xylene	2000		1	4	20	60	100	160	200	240	320	400
o Xylene	2000		1	4	20	60	100	160	200	240	320	400
Styrene	2000		1	4	20	60	100	160	200	240	320	400
1,4-Dichlorobenzene-d4	2500	10	10	10	10	10	10	10	10	10	10	10
Bromoform	2000		0.5	2	10	30	50	80	100	120	160	200
Butyl acrylate	2000		0.25	1	5	15	25	40	50	60	80	100
Isopropylbenzene	2000		0.5	2	10	30	50	80	100	120	160	200
4-Bromofluorobenzene	2500	10	10	10	10	10	10	10	10	10	10	10
Bromobenzene	2000		0.5	2	10	30	50	80	100	120	160	200
n-Propylbenzene	2000		0.5	2	10	30	50	80	100	120	160	200
1,4-Dichlorobutane	2000		0.5	2	10	30	50	80	100	120	160	200
1,1,2,2-Tetrachloroethane	2000		0.5	2	10	30	50	80	100	120	160	200
4-Ethyltoluene	2000		0.5	2	10	30	50	80	100	120	160	200
2-Chlorotoluene	2000		0.5	2	10	30	50	80	100	120	160	200
1,3,5-Trimethylbenzene	2000		0.5	2	10	30	50	80	100	120	160	200
1,2,3-Trichloropropane	2000		0.5	2	10	30	50	80	100	120	160	200
trans-1,4-Dichloro-2-butene	2000		0.5	2	10	30	50	80	100	120	160	200
4-Chlorotoluene	2000		0.5	2	10	30	50	80	100	120	160	200
tert-Butylbenzene	2000		0.5	2	10	30	50	80	100	120	160	200
Pentachloroethane	2000		0.5	2	10	30	50	80	100	120	160	200
n-Butyl methacrylate	2000		0.25	1	5	15	25	40	50	60	80	100
1,2,4-Trimethylbenzene	2000		0.5	2	10	30	50	80	100	120	160	200
sec-Butylbenzene	2000		0.5	2	10	30	50	80	100	120	160	200

Water	Stock (µg/mL)	Level 11 (ug/L)	Level 1 (ug/L)	Level 2 (ug/L)	Level 3 (ug/L)	Level 4 (ug/L)	Level 5 (ug/L)	Level 6 (ug/L)	Level 7 (ug/L)	Level 8 (ug/L)	Level 9 (ug/L)	Level 10 (ug/L)
							Optional		Optional		Optional	
p-Isopropyltoluene	2000		0.5	2	10	30	50	80	100	120	160	200
1,3-Dichlorobenzene	2000		0.5	2	10	30	50	80	100	120	160	200
1,4-Dichlorobenzene	2000		0.5	2	10	30	50	80	100	120	160	200
p-Diethylbenzene	2000		0.5	2	10	30	50	80	100	120	160	200
n-Butylbenzene	2000		0.5	2	10	30	50	80	100	120	160	200
1,2-Dichlorobenzene	2000		0.5	2	10	30	50	80	100	120	160	200
1,2,4,5-Tetramethylbenzene	2000		0.5	2	10	30	50	80	100	120	160	200
1,2-Dibromo-3-chloropropane	2000		0.5	2	10	30	50	80	100	120	160	200
1,3,5-Trichlorobenzene	2000		0.5	2	10	30	50	80	100	120	160	200
Hexachlorobutadiene	2000		0.5	2	10	30	50	80	100	120	160	200
1,2,4-Trichlorobenzene	2000		0.5	2	10	30	50	80	100	120	160	200
Naphthalene	2000		0.5	2	10	30	50	80	100	120	160	200
1,2,3-Trichlorobenzene	2000		0.5	2	10	30	50	80	100	120	160	200
1,3-Dioxolane	2000		10	40	100	250	N/A	500	N/A	750	N/A	1000
Pentachloroethane	2000		0.5	2	10	30	50	80	100	120	160	200
1,4-Dioxane (SIM)	100		0.5	2	10	20	30	50	100	200	N/A	N/A
1,1,2,2-Tetrachloroethane (SIM)	100		0.05	0.1	0.2	0.5	1	2	5	10	N/A	N/A

- For Low Level Soil analysis, the calibration levels are the same in µg/Kg units.
- For High Level Soil analysis, the calibration levels are at 50x the levels listed due to sample preparation requirements.

Table 5

8260D Volatile Internal Standards with Corresponding Target Compounds and Surrogates Assigned for Quantitation

Fluorobenzene	Chlorobenzene-d5	1,4-Dichlorobenzene-d4
Dichlorodifluoromethane	Toluene-d8 (surr)	Isopropylbenzene
Chloromethane	Toluene	Bromoform
Vinyl Chloride	Ethyl Methacrylate	1,4-dichloro-2-butane
Bromomethane	Trans-1,3-dichloropropene	1,1,2,2,-tetrachloroethane
Chloroethane	1,1,2-trichloroethane	4-bromofluorobenzene (surr)
Trichlorofluoromethane	2-hexanone	1,2,3-trichloropropane
Ethyl Ether	1,3-dichloropropane	trans-1,4-dichloro-2-butene
Freon 113	Tetrachloroethene	n-propylbenzene
Acrolein	Chlorodibromomethane	Bromobenzene
Acetone	1,2-dibromoethane	4-ethyltoluene
Ethanol	Chlorobenzene	1,3,5-trimethybenzene
1,1,-dichloroethene	1,1,1,2-tetrachloroethane	2-chlorotoluene
Tert-Butyl Alcohol	Ethylbenzene	4-chorotoluene
Methyl Acetate	p/m xylene	tert-butylbenzene
Carbon Disulfide	o xylene	1,2,4-trimethylbenzene
Methylene Chloride	Styrene	sec-butylbenzene
Acrylonitrile	Octane	p-isopropyltoluene
Methyl Tert Butyl Ether	2-Nitropropane	1,3-dichlorobenzene
Halothane	Methyl isothiocyanate	1,4-dichlorobenzene
Trans-1,2-dichloroethene	n-Butyl acetate	n-butylbenzene
Diisopropyl Ether	Nonane	p-diethylbenzene
Vinyl Acetate		1,2-dichlorobenzene
1,1-dichloroethane		1,2,4,5-tetramethylbenzene
Ethyl-Tert-Butyl-Ether		1,2-dibromo-3-chloropropane
2-butanone		1,3,5-trichlorobenzene
2,2-dichloropropane		1,2,4-trichlorobenzene
Cis-1,2-dichloroethene		Hexachlorobutadiene
Chloroform		Naphthalene
Bromochloromethane		1,2,3-trichlorobenzene
Tetrahydrofuran		Cyclohexanone
Dibromofluoromethane (surr)		Nitrobenzene

1,1,1-trichloroethane		Pentachloroethane
Cyclohexane		Decane
1,1-dichloropropene		Limonene
carbon Tetrachloride		trans-Decahydronaphthalene
Tertiary-Amyl Methyl Ether		Undecane
1,2-dichloroethane-d4 (surr)		Hexachloroethane
1,2-dichloroethane		cis-Decahydronaphthalene
Benzene		
Trichloroethene		
Methyl cyclohexane		
1,2-Dichloropropane		
Bromodichloromethane		
1,4-Dioxane		
Dibromomethane		
2-Chloroethylvinyl Ether		
4-methyl-2-pentanone		
cis-1,3-Dichloropropene		
Iodomethane		
Methyl methacrylate		
n-Butanol		
Ethyl acetate		
Isopropyl alcohol (IPA)		
Hexane		
n-Propyl bromide		
Chlorodifluoromethane		
Allyl chloride		
Heptane		

Table 6

8260D Quantitation Ions

Analyte	Quantitation Ion	Analyte	Quantitation Ion
Dichlorodifluoromethane	85	Ethyl Methacrylate	69
Chloromethane	50	Trans-1,3-dichloropropene	75
Vinyl Chloride	62	1,1,2-trichloroethane	83
Bromomethane	94	2-hexanone	43
Chloroethane	64	1,3-dichloropropane	76
Trichlorofluoromethane	101	Tetrachloroethene	166
Ethyl Ether	74	Chlorodibromomethane	129
Freon 113	101	1,2-dibromoethane	107
Acrolein	56	Chlorobenzene	112
Acetone	43	1,1,1,2-tetrachloroethane	131
1,1,-dichloroethene	96	Ethylbenzene	91
Tert-Butyl Alcohol	59	p/m xylene	106
Methyl Acetate	43	o xylene	106
Carbon Disulfide	84	Styrene	104
Methylene Chloride	76	Isopropylbenzene	105
Acrylonitrile	53	Bromoform	173
Methyl Tert Butyl Ether	73	1,4-dichloro-2-butane	55
Halothane	117	1,1,2,2,-tetrachloroethane	83
Trans-1,2-dichloroethene	96	1,2,3-trichloropropane	75
Diisopropyl Ether	45	Trans-1,4-dichloro-2-butene	53
Vinyl Acetate	43	n-propylbenzene	91
1,1-dichloroethane	63	Bromobenzene	156
Ethyl-Tert-Butyl-Ether	59	4-ethyltoluene	105
2-butanone	43	1,3,5-trimethybenzene	105
2,2-dichloropropane	77	2-chlorotoluene	91
Cis-1,2-dichloroethene	96	4-chlorotoluene	91
Chloroform	83	tert-butylbenzene	119
Bromochloromethane	128	1,2,4-trimethylbenzene	105
Tetrahydrofuran	42	sec-butylbenzene	105
1,1,1-trichloroethane	97	p-isopropyltoluene	119
Cyclohexane	56	1,3-dichlorobenzene	146
1,1-dichloropropene	75	1,4-dichlorobenzene	146
Carbon Tetrachloride	117	n-butylbenzene	91
Tertiary-Amyl Methyl Ether	73	p-diethylbenzene	119
1,2-dichloroethane	62	1,2-dichlorobenzene	146
Benzene	78	1,2,4,5-Tetramethylbenzene	119
Trichloroethene	95	1,2-Dibromo-3-chloropropane	75
Methyl Cyclohexane	83	1,3,5-Trichlorobenzene	180
1,2-Dichloropropane	63	1,2,4-Trichlorobenzene	180
Bromodichloromethane	83	Hexachlorobutadiene	225
1,4-dioxane	88	Naphthalene	128
Dibromomethane	93	1,2,3-trichlorobenzene	180
2-Chloroethylvinyl Ether	63	Ethanol	45
4-methyl-2-pentanone	58	Cyclohexanone	55
Cis-1,3-dichloropropene	75	Ethyl acetate	43

Table 6

8260D Quantitation Ions (continued)

Analyte	Quantitation Ion	Analyte	Quantitation Ion
Toluene	92	Iodomethane	142
Methyl methacrylate	69	n-Butanol	56
Pentachloroethane	167	Isopropyl Alcohol (IPA)	45
Hexane	57	n-Propyl bromide	43
Chlorodifluoromethane	51	Iodomethane	142
Allyl chloride	76	Heptane	71
Octane	85	2-Nitropropane	41
Methyl isothiocyanate	73	n-Butyl Acetate	43
Nonane	57	Decane	57
Limonene	68	Undecane	57
trans-Decahydronaphthalene	138	cis-Decahydronaphthalene	138
Hexachloroethane	117	Nitrobenzene	77

Table 7

List of 8260 Difficult Analytes:

1,1,2,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane (DBCP)
1,4-Dioxane
2-Butanone
2-chloroethylvinyl ether
2-Hexanone
2,2-dichloropropane
4-Methyl-2-pentanone
Acetone
Bromoform
Bromomethane
Carbon disulfide
Chloroethane
Chloromethane
cis-1,3-Dichloropropene
Dichlorodifluoromethane (Freon 12)
Ethanol
Iodomethane
Isobutyl Alcohol
Naphthalene
Nitrobenzene
n-butanol
Styrene
Tert-Butyl Alcohol
Trichlorofluoromethane (Freon 11)
Isopropyl Alcohol (IPA)

Table 8

ICAL Low Point re-quantitation ranges

Water	Level 11 (ug/L)	L11 (70% - 130%)	Level 1 (ug/L)	L1 (70% - 130%)	Level 2 (ug/L)	L2 (70% - 130%)	Level 3 (ug/L)	L3 (70% - 130%)
Dichlorodifluoromethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Chloromethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Vinyl chloride	0.19	0.133 - 0.247	0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Bromomethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Chloroethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Trichlorofluoromethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Ethyl ether			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Ethanol			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,1-Dichloroethene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Carbon disulfide			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Freon-113			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Iodomethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Acrolein			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Methylene chloride			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Isopropyl alcohol			2.5	1.75 - 3.25	10	7 - 13.0	50	35 - 65

Water	Level 11 (ug/L)	L11 (70% - 130%)	Level 1 (ug/L)	L1 (70% - 130%)	Level 2 (ug/L)	L2 (70% - 130%)	Level 3 (ug/L)	L3 (70% - 130%)
Acetone			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
trans-1,2-Dichloroethene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Methyl acetate			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Methyl tert-butyl ether			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
tert-Butyl alcohol			2.5	1.75 - 3.25	10	7 - 13.0	50	35 - 65
Diisopropyl ether			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,1-Dichloroethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Halothane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Acrylonitrile			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Ethyl tert-butyl ether			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Vinyl acetate			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
cis-1,2-Dichloroethene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
2,2-Dichloropropane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Bromochloromethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Cyclohexane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Chloroform			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Ethyl acetate			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Carbon tetrachloride	0.19	0.133 - 0.247	0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Tetrahydrofuran			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,1,1-Trichloroethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
2-Butanol			2.5	1.75 - 3.25	10	7 - 13.0	50	35 - 65
2-Butanone			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,1-Dichloropropene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Benzene	0.19	0.133 - 0.247	0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
tert-Amyl methyl ether			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,2-Dichloroethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Isobutyl alcohol			2.5	1.75 - 3.25	10	7 - 13.0	50	35 - 65
2-Methyl-2-butanol			2.5	1.75 - 3.25	10	7 - 13.0	50	35 - 65
Methyl cyclohexane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Trichloroethene	0.19	0.133 - 0.247	0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
n-Butanol			2.5	1.75 - 3.25	10	7 - 13.0	50	35 - 65
Dibromomethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,2-Dichloropropane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
4-penten-2-ol			2.5	1.75 - 3.25	10	7 - 13.0	50	35 - 65
2-Chloroethyl vinyl ether			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Bromodichloromethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Ethyl acrylate			0.25	0.175 - 0.325	1	0.7 - 1.3	5	3.5 - 6.5
Methyl methacrylate			0.25	0.175 - 0.325	1	0.7 - 1.3	5	3.5 - 6.5
1,4-Dioxane			100	70 - 130	400	280 - 520	500	350 - 650
cis-1,3-Dichloropropene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Toluene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
4-Methyl-2-pentanone			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Tetrachloroethene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0

Water	Level 11 (ug/L)	L11 (70% - 130%)	Level 1 (ug/L)	L1 (70% - 130%)	Level 2 (ug/L)	L2 (70% - 130%)	Level 3 (ug/L)	L3 (70% - 130%)
Chloropicrin			30	21 - 39	50	35 - 65	80	56 - 104
trans-1,3-Dichloropropene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
4-Methyl-2-pentanol			2.5	1.75 - 3.25	10	7 - 13.0	50	35 - 65
Ethyl methacrylate			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,1,2-Trichloroethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Chlorodibromomethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,3-Dichloropropane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,2-Dibromoethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
2-Hexanone			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Chlorobenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Ethylbenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,1,1,2-Tetrachloroethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
p/m Xylene			1	0.7 - 1.3	4	2.8 - 5.2	20	14 - 26
o Xylene			1	0.7 - 1.3	4	2.8 - 5.2	20	14 - 26
Styrene			1	0.7 - 1.3	4	2.8 - 5.2	20	14 - 26
Bromoform			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Butyl acrylate			0.25	0.175 - 0.325	1	0.7 - 1.3	5	3.5 - 6.5
Isopropylbenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Bromobenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
n-Propylbenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,4-Dichlorobutane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,1,2,2-Tetrachloroethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
4-Ethyltoluene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
2-Chlorotoluene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,3,5-Trimethylbenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,2,3-Trichloropropane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
trans-1,4-Dichloro-2-butene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
4-Chlorotoluene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
tert-Butylbenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Pentachloroethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
n-Butyl methacrylate			0.25	0.175 - 0.325	1	0.7 - 1.3	5	3.5 - 6.5
1,2,4-Trimethylbenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
sec-Butylbenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
p-Isopropyltoluene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,3-Dichlorobenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,4-Dichlorobenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
p-Diethylbenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
n-Butylbenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,2-Dichlorobenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,2,4,5-Tetramethylbenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,2-Dibromo-3-chloropropane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,3,5-Trichlorobenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
Hexachlorobutadiene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,2,4-Trichlorobenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0

Naphthalene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,2,3-Trichlorobenzene			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,3-Dioxolane			10	7 - 13.0	40	28 - 52	100	70 - 130
Pentachloroethane			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,4-Dioxane (SIM)			0.5	0.35 - 0.65	2	1.4 - 2.6	10	7 - 13.0
1,1,2,2-Tetrachloroethane (SIM)			0.05	0.035 - 0.065	0.1	0.07 - 0.13	0.2	0.14 - 0.26

ICAL Low Point re-quantitation ranges

Soil	Level 0 (ug/kg)	L0 (70% - 130%)	Level 1 (ug/kg)	L1 (70% - 130%)	Level 1.5 (ug/kg)	L1.5 (70% - 130%)	Level 2 (ug/kg)	L2 (70% - 130%)	Level 3 (ug/kg)	L3 (70% - 130%)
Dichlorodifluoromethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Chlorodifluoromethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Chloromethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Vinyl chloride	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Bromomethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Chloroethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Trichlorofluoromethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Ethyl ether	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Ethanol	N/A	N/A	20	14 - 26	N/A	N/A	80	56 -104	200	140 - 260
1,1-Dichloroethene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Carbon disulfide	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Freon-113	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Iodomethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Acrolein	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Allyl chloride	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Methylene chloride	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Isopropyl alcohol	N/A	N/A	20	14 - 26	N/A	N/A	80	56 -104	200	140 - 260
Acetone	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
trans-1,2-Dichloroethene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Methyl acetate	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Hexane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26

Soil	Level 0 (ug/kg)	L0 (70% - 130%)	Level 1 (ug/kg)	L1 (70% - 130%)	Level 1.5 (ug/kg)	L1.5 (70% - 130%)	Level 2 (ug/kg)	L2 (70% - 130%)	Level 3 (ug/kg)	L3 (70% - 130%)
Methyl tert-butyl ether	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
tert-Butyl alcohol	2.5	1.75 - 3.25	5	3.5 - 6.5	10	7.0 - 13.	20	14 - 26	100	70 - 130
Diisopropyl ether	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,1-Dichloroethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Halothane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Acrylonitrile	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Ethyl tert-butyl ether	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Vinyl acetate	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
cis-1,2-Dichloroethene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
2,2-Dichloropropane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Bromochloromethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Cyclohexane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Chloroform	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Ethyl acetate	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Carbon tetrachloride	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Tetrahydrofuran	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,1,1-Trichloroethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
2-Butanol	N/A	N/A	20	14 - 26	N/A	N/A	80	56 - 104	200	140 - 260
2-Butanone	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,1-Dichloropropene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Heptane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Benzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
tert-Amyl methyl ether	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,2-Dichloroethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Isobutyl alcohol	N/A	N/A	20	14 - 26	N/A	N/A	80	56 - 104	200	140 - 260
2-Methyl-2-butanol	2.5	1.75 - 3.25	5	3.5 - 6.5	10	7	20	14 - 26	100	70 - 130
Methyl cyclohexane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26

Soil	Level 0 (ug/kg)	L0 (70% - 130%)	Level 1 (ug/kg)	L1 (70% - 130%)	Level 1.5 (ug/kg)	L1.5 (70% - 130%)	Level 2 (ug/kg)	L2 (70% - 130%)	Level 3 (ug/kg)	L3 (70% - 130%)
Trichloroethene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
n-Butanol	N/A	N/A	20	14 - 26	N/A	N/A	80	56 - 104	200	140 - 260
Dibromomethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,2-Dichloropropane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
4-penten-2-ol	2.5	1.75 - 3.25	5	3.5 - 6.5	10	7	20	14 - 26	100	70 - 130
2-Chloroethyl vinyl ether	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Bromodichloromethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Ethyl acrylate	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Methyl methacrylate	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,4-Dioxane	N/A	N/A	40	28 - 52	80	56 – 104	200	140 - 260	1000	700 - 1300
cis-1,3-Dichloropropene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Octane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Toluene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
4-Methyl-2-pentanone	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Tetrachloroethene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
2-Nitropropane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Chloropicrin	N/A	N/A	50	35 - 65	N/A	N/A	100	70 - 130	200	140 - 260
trans-1,3-Dichloropropene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Methyl isothiocyanate	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
4-Methyl-2-pentanol	N/A	N/A	20	14 - 26	N/A	N/A	80	56 - 104	200	140 - 260
Ethyl methacrylate	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,1,2-Trichloroethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Chlorodibromomethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,3-Dichloropropane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,2-Dibromoethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
n-Butyl Acetate	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26

Soil	Level 0 (ug/kg)	L0 (70% - 130%)	Level 1 (ug/kg)	L1 (70% - 130%)	Level 1.5 (ug/kg)	L1.5 (70% - 130%)	Level 2 (ug/kg)	L2 (70% - 130%)	Level 3 (ug/kg)	L3 (70% - 130%)
2-Hexanone	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Nonane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Chlorobenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Ethylbenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,1,1,2-Tetrachloroethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
p/m Xylene	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	8	5.6 - 10.4	40	28 - 52
o Xylene	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	8	5.6 - 10.4	40	28 - 52
Styrene	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	8	5.6 - 10.4	40	28 - 52
Bromoform	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Butyl acrylate	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Isopropylbenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Bromobenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Decane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
n-Propylbenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,4-Dichlorobutane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,1,2,2-Tetrachloroethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
4-Ethyltoluene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
2-Chlorotoluene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,3,5-Trimethylbenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,2,3-Trichloropropane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
trans-1,4-Dichloro-2-butene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
4-Chlorotoluene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
tert-Butylbenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Pentachloroethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
n-Butyl methacrylate	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,2,4-Trimethylbenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26

Soil	Level 0 (ug/kg)	L0 (70% - 130%)	Level 1 (ug/kg)	L1 (70% - 130%)	Level 1.5 (ug/kg)	L1.5 (70% - 130%)	Level 2 (ug/kg)	L2 (70% - 130%)	Level 3 (ug/kg)	L3 (70% - 130%)
Limonene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
sec-Butylbenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
p-Isopropyltoluene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,3-Dichlorobenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,4-Dichlorobenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
trans-Decahydronaphthalene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Undecane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
p-Diethylbenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
n-Butylbenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Hexachloroethane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,2-Dichlorobenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
cis-Decahydronaphthalene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,2,4,5-Tetramethylbenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,2-Dibromo-3-chloropropane	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,3,5-Trichlorobenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Nitrobenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Hexachlorobutadiene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,2,4-Trichlorobenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
Naphthalene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,2,3-Trichlorobenzene	0.5	0.35 - 0.65	1	0.7 - 1.3	2	1.4 - 2.6	4	2.8 - 5.2	20	14 - 26
1,3-Dioxolane	N/A	N/A	25	17.5 - 32.5	N/A	N/A	50	35 - 65	100	70 - 130

Determination of Volatile Organic Compounds in Air Using Specially-Prepared Canisters and Analyzed by GC/MS

References: **Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air - Second Edition.** U.S. Environmental Protection Agency. EPA/625/R-96/010b. Office of Research and Development National Risk Management Research Laboratory. Center for Environmental Research Information. Cincinnati, Ohio. January 1999.

Method TO-15: Determination of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters and Analyzed By Gas Chromatography Mass Spectrometry (GC/MS). U.S. Environmental Protection Agency. EPA/625/R-96/010b. Office of Research and Development National Risk Management Research Laboratory. Center for Environmental Research Information. Cincinnati, Ohio. January 1999.

1. Scope and Application

Matrices: Ambient Air, Soil Gas, Soil Vapor

Definitions: Refer to Section 16 and Alpha Analytical Quality Systems Manual

This SOP describes the procedure for the analysis of volatile organic compounds (VOCS) in ambient air. The whole air samples are collected in fused-silica lined (FSL) stainless steel canisters, or Tedlar® bags. The VOCs are subsequently separated by gas chromatography (GC) and measured by mass selective detector (MSD).

The organic compounds that are amenable to this method are listed in Table 9. Other compounds may also be amenable provided they meet the QA/QC requirements of the method.

The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one or more of the following laboratory personnel before performing the modification: Area Supervisor, Department Supervisor, Laboratory Director, or Quality Assurance Officer.

This method is restricted to use by or under the supervision of analysts experienced in the operation of the GC/MS and in the interpretation of GC/MS data. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

This SOP contains addendums for various state-specific requirements. The criteria in these addenda (Addendum C-F) must be adhered to for projects conducted under the state programs.

2. Summary of Method

Samples are collected in precleaned, evacuated FSL canisters or Tedlar® bags.

Samples are pre-concentrated using the Entech 7200 or 7200A Cryogenic Concentrator. A specified volume of sample is pulled using a vacuum pump through a mass flow controller. The sample is cryogenically concentrated to a volume of less than one mL on a Tenax® trap.

Following pre-concentration, the sample is refocused on the GC transfer line. This step further reduces the sample volume to less than one microliter for injection.

The sample is then injected into the GC, which is used to separate the compounds of interest. All compounds are detected using an MSD.

2.1 Method Modifications from Reference

Initial Calibration modifications: If a target analyte cannot meet the %RSD criteria for relative response factor calibration, then linear regression may be used. A minimum of five calibration points must be incorporated and a correlation coefficient of 0.995 or greater must be achieved. The calibration plot must be printed and approval by a supervisor must be obtained prior to calibration acceptance. If any compound is calibrated using linear regression then after the ICV and prior to any sample analysis, a low point standard must be analyzed to confirm there is no bias resulting from the linear regression calibration used. Recovery of the low point standard must be 60-140% using the linear regression curve.

Continuing calibration and laboratory controlled spike (LCS) modifications: The recoveries of all analytes must be within 70% to 130% of the true value. If more than 10% of the compounds fail these criteria, or if one compound has a recovery less than 50% or greater than 150% the LCS must be re-analyzed. If failure occurs a second time, the instrument must be re-calibrated. Recoveries greater than 150% may be acceptable, provided analytes are not detected in the samples.

Initial Calibration Verification modification: Two analytes are allowed to be greater than 30% RSD, but less than 40%.

Sample Duplicate modifications: Up to 10% of the target analyte detections may exceed acceptance criteria. If more variation occurs, the sample analysis must be repeated. If an analyte detected in one of the analysis at >5x the reporting limit, and not detected in the duplicate analysis, the analysis must be repeated. If an analyte is detected in one analysis at <5x the reporting limit and not detected in the duplicate analysis, the RPD is not calculable (NC) and the analysis does not have to be repeated. If an analyte is not detected in both the original and duplicate analysis, the RPD is NC.

Section 8.4.1.2 of the TO-15 method requires all canisters to be leak checked for a period of 24 hr via pressurization of the canister. The laboratory conducts the leak check by measuring the vacuum of the canister after a minimum of a 24 hr. period has elapsed, not by pressurizing the canister as per the method.

The % RSD for any analyte must be < 30%, as outlined in Section 10.2.2.7 of this SOP.

Humidified nitrogen is used in place of zero air due to the frequency of detection of VOCs in zero air, particularly at SIM detection limits.

There is no NIST-traceable second source standard currently available for the analytes listed in Table 1, Table 3B, and Table A-7.

3. Reporting Limits

Table 9 lists target analytes and Reported Detection Limit information.

4. Interferences

4.1 Contamination may occur in the sampling system if canisters are not properly cleaned before use. Additionally, all other sampling equipment (e.g., pump and flow controllers)

must be thoroughly cleaned to ensure that the filling apparatus will not contaminate samples.

4.2 System carryover can be a potential problem, particularly for the heavier molecular weight hydrocarbons. Carryover can occur after the analysis of standards or high-level samples. Measures that must be taken to remove this contamination can include the analysis of multiple blanks, lab air, and the purging of the autosampler with nitrogen.

4.3 High moisture content, methane levels and/or carbon dioxide levels may interfere with the chromatography and trapping of target analytes. Dilutions may be performed on these samples; however, the reporting limits will then be elevated.

5. Health and Safety

The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material safety data sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

All employees performing laboratory procedures must have read and understood the Alpha Analytical Chemical Hygiene Plan. All laboratory procedures must be performed in accordance with the provisions and policies of the manual. All accidents, injuries, spills, or unsafe conditions must be reported immediately to the laboratory manager, and such occurrences must be thoroughly documented.

The analyst must wear a lab coat, gloves, and safety glasses while preparing solutions or handling samples.

Preparation of liquid standards must be performed under a properly functioning fume hood. Preparation and venting of gaseous standards must also be performed under a properly functioning fume hood.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection

6.1.1 FSL canister samples can be collected as grab samples or as time-integrated samples. Time-integrated samples can be collected for a maximum of 12 hours using 2.7-liter canisters, or a maximum of 24 hours to 7 days using 6-liter canisters. One liter canisters are typically used for soil vapor sampling with a sampling flowrate of 100-200 ml/min.

6.1.1.1 Grab samples are collected by opening the canister valve and allowing the canister to fill to ambient pressure. This process takes approximately one minute.

6.1.1.2 Time-integrated samples require the use of a properly calibrated flow controller. The flow controller, if provided by Alpha, is calibrated prior to

sample collection and is documented in the Alpha ACS LIMs (Refer to Alpha SOP # 2190 for Canister and Flow Controller Preparation).

6.1.2 Tedlar® bag samples typically can be collected as grab or composite samples and may require a pumping system or evacuated box.

6.1.3 Upon receipt at the laboratory, all samples are assigned unique laboratory identification numbers, checked for possible discrepancies, etc. (See SOP # 1559.)

6.2 Sample Preservation

Canisters-None. Tedlar® bags-should be protected from light.

6.3 Sample Shipping

All samples must be accompanied by a chain of custody form, which documents the date, and time of sample collection.

6.4 Sample Handling

The pressure of all FSL canister samples is measured upon receipt at the laboratory and documented in the ACS LIMs (See Alpha SOP #2190). A pressure gauge is attached to the canister inlet, the canister valve is briefly opened and the pressure is recorded. The gauge apparatus used to measure ambient air samples must be separate from that used to measure soil vapor or other matrices known to have elevated levels of VOCs to avoid cross-contamination.

Samples with pressures greater than -15 inches Hg are considered acceptable for analysis.

Samples with less than -15 inches Hg should be pressurized to > -15 inches Hg in order for the concentrator system to accurately draw the correct volume, resulting in a dilution of the sample. For ambient air samples, the client must be notified prior to sample analysis since this dilution may cause reporting limits to be elevated above project action levels.

Any samples that undergo pressurization prior to analysis are documented in the instrument software. Refer to Section 10.3.3.6 for the calculation of dilution factors due to pressurization of samples.

Refer to SOP # 1559 for Sample Management information.

FSL canister and Tedlar® bag samples are stored in the Volatiles Laboratory until analysis has been completed. Tedlar® bag samples are stored in opaque containers.

The recommended holding time for the analysis of FSL canister samples for TO-15 is 30 days from date of collection. The recommended holding time for the analysis of Tedlar® bag samples for TO-15 is 48-72 hours from date of collection. Tedlar® bag samples requiring TO-15 analysis may be transferred into canisters upon receipt at the laboratory in order to extend the holding time of the sample to 30 days.

Samples designated by client to be held for subsequent analyses or are “on hold” are to be kept in a designated area in the laboratory. “Hold” samples are discarded upon client authorization or after holding time expiration date.

7. Equipment and Supplies

7.1 Microliter syringes: 10, 25,and 500 µL

7.2 Gas tight syringes: 1 mL, 5 mL, 25 mL, 50 mL, and 100 mL

7.3 FSL canisters: 1.0, 2.7, 6.0 and 15 Liter

7.4 Tedlar® bags: Various sizes. Alpha supplies 5-Liter sizes. All bags must have polypropylene fittings which are recommended for the analysis of Sulfides and Mercaptans (see App. A).

7.5 Stop watch

7.6 Sample Concentrator

7.6.1 The concentrator system consists of two separate pieces of equipment: (1) Entech Model 7016D VOC Autosampler, and (2) Entech Model 7200 or 7200A Cryogenic Concentrator using liquid nitrogen.

7.6.2 A vacuum pump (Vaccubrand Model ME2 or similar) delivers the sample from the autosampler to the cryogenic concentrator FSL-lined steel tubing.

7.7 Gas Chromatograph System

7.7.1 Gas chromatograph - Shimadzu 2010, 2030

7.7.2 Chromatographic column: Restek RTX-1; 60 meters, 0.25 mm or 0.32 mm ID, 1 micron film thickness

7.7.3 Transfer line from column to GC injection port: Hydroguard ™ 0.32 mm capillary tubing connected to column with Restek Vu-Union connector.

7.8 Mass Spectrometer System

7.8.1 Mass spectrometer - Shimadzu 2010, 2020

7.8.2 The mass spectrometer must be capable of scanning from 29 to 270 amu every 3 seconds or less, utilizing 70 volts (nominal) electron energy in the electron impact ionization mode and producing a mass spectrum that meets all the criteria in Table 5 when 50 ng of 4- bromofluorobenzene is injected. For SIM (selective ion monitoring) analysis, the system must be capable of simultaneous SIM/full scan acquisition.

7.8.3 Data System - Shimadzu GC/MS Solutions software for data acquisition and Agilent Enviroquant version E.02.00 for data processing.

7.9 Dilution Systems

7.9.1 Entech 4600A Dynamic Dilution System- for performing sample dilutions in canisters and Entech 4700 Precision Diluter preparing calibration standards in canisters. .

7.10 Primary flow measurement device: BIOS Cell Defender 510 or equivalent

8. Reagents and Standards

8.1 DI Water or Carbon-filtered tap water

8.2 High purity purge and trap grade methanol (Fisher part # A453-1 or equivalent) for MS source cleaning

8.3 Ultra high purity (UHP) helium for the GC/MS system

8.4 Ultra high purity (UHP) nitrogen for standard preparation

8.5 NIST certified TO-15 gas standards, purchased from Linde (formerly Spectra Gases). Standards are stored at room temperature and expire per vendor's expiration date, unless re-certified. Recertified standards are received with an updated certificate of analysis which includes a new expiration date.

8.6 Neat chemicals: Listed in Table 1, Table A-1, and Table 3B, ≥ 98% purity.

8.7 Liquid nitrogen: For the concentrator system and/or GC cooling

8.8 Primary Standards

8.8.1 Primary standard mixtures of TO-15 analytes are purchased certified gaseous standards already prepared as well as gaseous standards prepared in the laboratory by injecting neat chemicals into Tedlar® bags (See Table 1).

8.8.2 Table 1 indicates volumes of neat chemicals that are injected into 20 L of zero air or UHP nitrogen to obtain primary standard concentrations for all analytes.

8.8.3 Purchased primary standards are assigned a CSS # (commercially supplied standard) upon receipt for tracking purposes. Preparation of primary standards must be entered into the primary standard preparation logbook (Form No.: 117-11).

8.8.4 Standards are valid per the manufacturer's expiration date as noted.

8.9 Secondary Standards

8.9.1 Prepare secondary standards in canisters using the Entech 4700 Precision Diluter at a minimum of two concentration levels. Table 3A and 3B outlines the preparation steps for each secondary standard.

8.9.2 Prior to preparation of the standards, verify that an appropriate vacuum exists in the canister (>0.5 psia). Figure 3 demonstrates the standard preparation system. Primary standards prepared in Tedlar bags are injected into a canister (typically

15 L) using an injection tee with a septum or transferred from purchased and / or prepared cylinders via the precision diluter.

8.9.3 Attach the transfer lines from the primary standards to the dynamic diluter.

8.9.4 Prior to the injection of the gaseous standards, allow the dynamic diluter to equilibrate for a approximately 25 minutes by allowing each standard channel to flush for a minimum of 5 min. Be sure the vent line is attached to the outlet.

8.9.5 After equilibrating the system, attach the canister to the outlet of the diluter. Flush line with nitrogen for 20 sec prior to attaching canister. Load in the appropriate configuration and standard preparation method (TO15 ICAL, DIAZ, or TO15 LCS) into the precision dilution software for the corresponding target concentration (TO15 ICAL 100 ppbV, TO15 ICAL 10 ppbV).

Equation 1: Flow rate calculation:

$$T_f = V_{std} / F_{std}$$

Where:

T_f = standard transfer time, minutes
V_{std} = standard volume, mL
F_{std} = standard flowrate, mL/min

8.9.6 Inject the appropriate amount of Tedlar bag primary standard and/or the low vapor pressure compounds listed in Table 3B into the injection port tee. This injection must be done while the canister is below atmospheric pressure.

8.9.7 When all the primary standards have been added to the canister, the canister will be pressurized to the programmed final pressure using the precision diluter.

NOTE: Standard canisters prepared for analysis using the autosampler must have a maximum pressure of 30 psia to ensure proper and consistent sampling by the instrument.

8.9.8 Label the canister accordingly and record the standard preparation in the secondary standard (SS) preparation logbook (Form No.: 12925).

8.9.9 The ICV/LCS standard is prepared in the same manner, using primary standards of differing lot #s, at a concentration of 10 ppbV

Secondary standards are valid for 6 months.

8.10 Internal Standard and BFB Tuning Standard/Surrogate Standard

An internal standard (Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-D5) and tuning/surrogate standard containing Toluene-D8, 1,2-Dichloroethane-D4, and Bromofluorobenzene (BFB) are prepared as two separate gas standards at 25 ppbV (2

year expiration date). The internal standards and BFB / surrogates are loaded onto the sample trap prior to the calibration standard(s), sample, or QC sample(s) via a mass flow controller. The concentration of the internal standard and BFB / surrogates added is based upon the nominal concentration of sample that is analyzed. If the nominal volume of sample is 250 mL, then 100 mL of the 25 ppbV internal standard mix will yield a true value of 10 ppbV for the internal standards and BFB. Using equation 7, the ug/m^3 equivalent of BFB injected 179 ug/m^3 or 179 ng/L (MW of BFB = 175). Thus, the total ng injected is:

Total ng = 179 ng/L x 0.100 L = 17.9 ng

8.11 Instrument Calibration Standards

Calibration standards are prepared by injecting different volumes of the secondary standards into the concentrator/GC/MS system. The low standard will be used to establish the reporting limit for sample analyses. These are described in more detail in Section 10.

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method. Quality control limits may also be found in the Laboratory Information Management System(LIMs)

At a minimum, for each day of analysis, a Continuing Calibration standard, Laboratory Method Blank, Laboratory Control Spike and Laboratory Duplicate must be analyzed. Laboratory Control Spike Duplicate (LCSD) will be analyzed only upon client request.

9.1 Laboratory Method Blank(s)

A FSL canister pressurized to 30 psia with humidified nitrogen is utilized as the Laboratory Method Blank. This method blank must be free of target analyte contamination at or above the reporting limit. If it is not, the system must be evaluated for possible sources of contamination. Once the source is determined and eliminated, the Blank must be reanalyzed.

A Laboratory Method Blank must be run after samples suspected of being highly contaminated to determine if sample carryover has occurred. If samples have been analyzed using an autosampler, data must be evaluated for potential carryover and re-analyses conducted, as appropriate.

9.2 Laboratory Control Sample (LCS) / Laboratory Control Spike Duplicate (LCSD)

NOTE: A Laboratory Control Spike Duplicate is only performed when specified by the project requirements and/or upon Client request.

Laboratory Control Spike - A Laboratory Control Spike (LCS) is prepared by spiking an evacuated FSL canister with a different primary standard solution than that used for the calibration or a purchased gaseous standard with the components of interest may be used. If the recovery is not within acceptance criteria, the LCS may be analyzed a second time. If the LCS failure continues, the instrument must be recalibrated. Refer to Section 12 for appropriate corrective actions to be taken. QC limits are subject to change for any particular analyte, if deemed necessary after review of QC control limits.

9.3 Initial Calibration Verification (ICV)

A mid-range calibration standard must be analyzed after the initial calibration and prior to sample analysis, and must be a different source than that used for the initial calibration. See section 10.4.1 for additional criteria. Otherwise, sample analysis may proceed.

9.4 Continuing Calibration Verification (CCV)

A mid-range calibration standard must be analyzed prior to sample analysis. This standard is of a different source than that used for the LCS/LCSD pair, typically the same source as the initial calibration standards. See section 10.4. or additional criteria. If repeated failure of the CCV occurs, the instrument must be recalibrated. Otherwise, sample analysis may proceed. The LCS may also be utilized as the continuing calibration unless otherwise defined in an addendum.

9.5 Matrix Spike

Not applicable.

9.6 Laboratory Duplicate

Laboratory Duplicate is a replicate analysis of a sample. The RPD of duplicate analyses must not exceed 25. Up to 10% of the target analyte detections may exceed acceptance criteria. The criteria does not need to be applied to concentrations less than 5X the reporting limit. If more variation occurs, the sample analysis must be repeated. If an analyte is detected in one analysis at >5x the reporting limit and not detected in the duplicate analysis, the analysis must be repeated. If an analyte is detected in one analysis at <5x the reporting limit and not detected in the duplicate analysis, the RPD is not calculable (NC) and the analysis does not have to be repeated. If an analyte is not detected in both the original and duplicate analyses, the RPD is NC. Equation 9 is used to calculate the RPD.
The sample chosen for duplicate analysis should not be a trip blank, field blank, or equipment blank. The sample chosen for duplicate analysis must be rotated among clients and/or sites. If possible, field duplicates should not be chosen for duplicate analysis, nor should outside air samples if indoor air samples are also included in the analytical batch. Refer to Appendices D - F for agency –specific criteria on laboratory duplicate criteria.

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Equation 9: RPD Calculation

$$RPD = ABS(C_s - C_d) / [(C_s + C_d)/2]*100$$

where:

RPD = relative percent difference
C_s = concentration in original sample analysis
C_d = concentration in duplicate sample analysis

9.7 Method-specific Quality Control Samples

9.7.1 BFB Tune - A successful BFB spectrum must meet the criteria in Table 5 prior to sample analysis. If a successful BFB spectrum is not obtained, the MS must be retuned and the BFB spectrum re-evaluated prior to analyzing samples.

9.7.2 Internal Standards - The internal standard area counts of each sample, blank, and Laboratory Control Sample are evaluated against the corresponding

continuing calibration standard. The internal standard area counts must be within 60-140% of the continuing calibration standard area counts. If the retention times of the internal standards must be within +/- 0.33 min. If the internal standards fall outside this range, the sample, blank, or Laboratory Control Sample must be reanalyzed. In addition, area counts for internal standards for continuing calibration must be within 60-140% recovery of initial calibration. Refer to Sect. 12 for contingencies on samples exhibiting internal standard recovery failures.

9.7.3 TIC Internal Standards - Internal standards used for the quantitation of TICs must be evaluated by comparing the total ion area counts of the internal standards in the samples to the total ion area counts of the internal standards in the blanks. The internal standard area counts must be within 50-200% of the blank area counts. If the internal standards fall outside this range, a different internal standard or an estimated internal standard total ion area must be used to quantitate the TIC. This estimate can be done by using the total ion area from a blank or a clean sample within the analytical batch.

9.8 Method Sequence

- BFB Tune Check
- Calibration Standards (initial) or Continuing Calibration
- Laboratory Control Sample (may be used as the ICV or CCV)
- Laboratory Control Sample Duplicate (if needed)
- Laboratory Method Blank
- Samples
- Laboratory Duplicate

Injections may be made until 24 hours after the injection used to check the BFB tune.

All analytical sequences must be recorded in the instrument software and documented in the instrument logbook (Form 117-09).

10. Procedure

10.1 Equipment Set-up

10.1.1 Canister Cleaning and Certification

Refer to Alpha SOP #2190 for canister and flow controller preparation.

10.1.2 Sample Preparation and Concentration

Ensure the integrity of the canister sample as described in Section 6.4. General description of procedure: A 3-stage concentration technique called Cold-Trap Dehydration is used to analyze VOC's in air. The air sample is first concentrated to about a 0.5cc volume by drawing an aliquot of sample simultaneously through a cold trap (no packing material) and then through a Tenax trap. The cold trap is then heated to 10 °C and is held there while slowly passing helium through it to transfer these compounds to the Tenax trap, leaving most of the moisture in the cold trap. Sweeping the VOC's from the first to the second trap with only 20cc of helium results in a transfer of less than 0.5 µL of water (40 mL @ 100% RH @ 10 °C) which can be easily handled by benchtop mass spectrometers. The 20 cc transfer volume also serves to flush the CO_2 through the Tenax trap. After transfer to the second trap, the VOC's are back-flushed while heating to be further focused on an open-tubular focusing trap (cryofocuser) for rapid injection onto the analytical column. Internal standard is added directly to the first stage cryogenic trap prior to the sample by a mass flow controller (MFC). MFC controlled introduction is advantageous over loop injection as it remains consistent with the mechanism used to measure the sample volume.

Connect the canisters or Tedlar® bag(s) to the Entech 7016D Autosampler. For FSL canisters: Align the tubing from one of the 16 positions to the canister inlet position. Push the inlet line into the orifice of the canister and hold in place while tightening the fitting finger tight. Turn the stainless steel nut ¼ turn more with a wrench. The canister valves must be closed at this point. For Tedlar® bags: Connect the valve of the Tedlar® bag with the autosampler line using an adapter fitting.

For canister samples, leak check all inlet connections using the leak check procedure included with the Entech software. The software will indicate if there is a change in vacuum over a period of 30 sec. The vacuum must not increase more than 2 psia. Analysis cannot begin until the leak check has passed for each canister being tested and/or the source of the leak has been determined..

Open the canister or bag valves.

Set up the sequence of the Entech system to withdraw 250 mL from each sample. If high concentrations are expected, lower volumes can be used (minimum of 25 mL).. Samples suspected to contain elevated concentrations (i.e. soil vapor, sub-slab, landfill gas) should be pre-screened prior to analysis to obtain more precise dilution information. If screening results indicate elevated concentrations of non-target analytes, the sample should be diluted such that the peak height of the non-target analyte is approximately 10X greater than the peak height of the first internal standard. Recommended concentrator operating parameters are provided in Table 6.

10.2 Initial Calibration

10.2.1 GC Conditions (Shimadzu 2010, 2030)

Oven program: 25° C, hold for 5.0 minutes, then:

Ramp 1: 100° C at 8.0° C / min.; hold for 0.0 min

Ramp 2: 220° C at 25° C / min.; hold for 4.0 min

Gas Flows

Helium carrier gas flow program: 2.0 mL/min for entire run (23.18 min)

Sample Injection

Injection mode:	split
Injection port temperature:	250^0 C
Inlet pressure:	27.3 psi
Total flow:	39.3 mL/min
Split ratio:	17.3
Split flow:	34.6 mL/min
Gas saver flow:	OFF

10.2.2 MS Conditions

Temperature of MSD transfer line: 250^0 C

Temperature of MS Quad: 150^0 C

Temperature of MS Source: 230^0 C

Solvent Delay: 3.0 minutes

Scanning Parameters: 29-270 amu until 10 min, scan rate = 5.52 scans/sec; then 35-270 amu, scan rate = 3.1 scans/sec. Threshold = 150. Sampling rate = 2. EM offset-variable to achieve response of 200K area counts (+/- 25K) for the internal standard bromochloromethane.

10.2.3 Daily GC/MS Performance Check

10.2.3.1 The first analysis of the day is typically a tune evaluation. The GC/MS system is checked to confirm that acceptable performance criteria for bromofluorobenzene (BFB), which is in surrogate mixture, are achieved. These criteria must be met prior to analyzing further standards, blanks and samples.

10.2.3.2 A maximum injection of 50 ng must successfully meet the BFB spectrum criteria in Table 5.

10.2.3.3 If the spectrum of BFB does not meet the above stated criteria, the analysis must be repeated. If the spectrum of BFB still does not meet these criteria, the GC/MS instrument must be re-tuned.

10.2.3.4 The Daily GC/MS Performance Check must be analyzed every 24 hours or less.

10.2.4 Initial Calibration

10.2.4.1 Analyze a minimum of five different levels by analyzing various volumes of the secondary standards prepared in Table 3 (Table A-3 for sulfide/mercaptan analysis). The lowest standard will be at or below the

reporting limit. If the response is not linear at the lowest level for the higher molecular weight compounds, this point must not be included in the calibration curve for these compounds. As a result, the analysis of more than five levels may be required in order to ensure a minimum of five calibration points for each analyte.

Table 4 lists the calibration standard levels and the volumes of the secondary standards needed to achieve these levels.

10.2.4.2 The true value of each of these calibration points is determined by applying a dilution factor that is based on the volume of sample extracted from the canister for each calibration point. Assuming that a volume of 250 mL will be the maximum volume extracted from the samples; this will be the "1X" volume. A dilution factor can be calculated using Equation 2.

Equation 2: Calculation of Instrument Dilution Factor

$$\mathbf{DF = V_{1X} / V_{actual}}$$

where:

DF = dilution factor
V_{1X} = maximum volume sampled, mL
V_{actual} = actual volume sampled for samples and standards

10.2.4.3 Analyze each calibration standard according to the procedures specified in Section 10. The true value of each calibration point is determined by dividing the concentration of the canister by the dilution factor determined using Equation 2.

10.2.4.4 Tabulate the area response of the characteristic ions against the amount for each analyte and internal standard and calculate relative response factors (RRF) for each compound using Equation 3. Perform this calculation for each calibration standard.

Equation 3: Relative Response Factor for Individual Target Analytes

$$\mathbf{RRF = [(A_{EC}) * (C_i)] / [(A_{EI}) * (C_c)]}$$

where:

RRF = relative response factor
A_{EC} = area count of the extracted ion for the analyte of interest
C_i= amount of internal standard (ppbV)
A_{EI} = area count of the extracted ion for the associated internal standard

C_c = amount of analyte of interest (ppbV)

Table 7 lists all TO-15 analytes, internal standards and the associated quantitation ion.

Table 8 lists the internal standards and the associated TO-15 analytes.

10.2.4.5 Calculate the average response factor for each of the target analytes by the following equation (AVG_x = SUM(RFs) / total # of RFs).

10.2.4.6 Calculate the percent relative standard deviation (%RSD) of the response factors over the secondary range of the curve for each of the target analytes using Equation 4.

Equation 4: Percent Relative Standard Deviation

$$\%RSD = [(SD_n - 1) / (AVG_x)] * 100]$$

where:

%RSD = percent relative standard deviation
SD_n -1 = standard deviation (n-1 degrees of freedom)
AVG_x = average response factor from the initial calibration curve

This task can also be accomplished using the quantitation software provided by the instrument manufacturer.

10.2.4.7 If the %RSD is <30 for each analyte, linearity can be assumed for the associated target analyte and sample analysis may proceed.

If the %RSD is >30 for any analyte, the integrations must be evaluated and the calculations verified. If a %RSD <30 cannot be achieved, it is acceptable for two (2) of the analytes to be above 30%, but below 40% RSD (applies to analytes flagged with a “C” on the Enviroquant initial calibration summary table).

Alpha may use the following modified acceptance criteria only for projects that have documentation and approval within the QAPP by the quality assurance project planners, and also for analytes not listed in EPA Method TO-15:

10.2.4.8 If the %RSD is >30 for any analyte, the integrations must be evaluated and the calculations verified. If a %RSD <30 cannot be achieved, it is acceptable for 10% of the total analytes to be above 30%, but below 50% RSD. Before acceptance of such a Calibration Curve, it must be confirmed with the approval of the Section Supervisor and/or the Project Manager that these analytes are typically and historically "trouble" analytes or "poor performers" (typically compounds listed in Table 3B), and that all Client and Project Data Quality Objectives (DQOs) will still be met when analyzing samples using this calibration. Refer to Appendices D - F for agency –specific criteria regarding initial calibration acceptance criteria.

Calibration points may be removed from the calibration curve to meet the 30% RSD criteria, so long as five consecutive points remain in the calibration curve, and the following procedure is followed:

- Remove high level calibration points
- Remove low-level calibration points; reporting limits will need to be elevated, however.

10.2.4.9 If calibration points in the mid-level range need to be removed due to a sequence error or instrument malfunction, the entire calibration level must be removed from the calibration curve. If the %RSD >30, a calibration curve is generated using the EnviroQuant quantitation software.

Correlation Coefficient calculation is performed by the Enviroquant software as follows;

$$r = \frac{n(\Sigma xy) - (\Sigma x)(\Sigma y)}{\sqrt{[\, n\Sigma x^2 - (\Sigma x)^2 \,][\, n\Sigma y^2 - (\Sigma y)^2 \,]}}$$

Where:

r = Correlation Coefficient

n = number of standards measured

x = true concentration of the standard

y = observed concentration of the standard

The correlation coefficient (linear) for the calibration curve must be greater than 0.995. If these criteria cannot be met, prepare a new set of calibration standards and recalibrate the instrument. NOTE: Quadratic calibration in any form is not acceptable.

Authorization from the department supervisor is required prior to using linear regression calibration. Linear regression is only allowed if certain criteria listed below are met:

- The minimum number of points for a linear regression curve is five points.
- The curve must be plotted and printed and turned in with the raw data.
- A calibration standard must be analyzed at the low point of the curve. Recovery of the low point standard must be 60-140% using the linear regression curve.

  The recovery of the compound for the continuing calibration / LCS must be within 70-130%.

10.2.4.10 The reference spectra for all target analytes are reviewed for both assignments and purity for all instruments. In addition, this process of reviewing all spectra continues whenever a new calibration is completed.

Reference spectra should be updated with each initial calibration performed with the midpoint standard of the calibration.

10.2.4.11 Internal Standard Criteria for Initial Calibration Levels and ICV.

The mean response for each internal standard compound is calculated over the initial calibration range. The area response at each calibration level must be within 60-140% of the midpoint area response over the initial calibration range for each internal standard. If recovery is outside the range, re-analyze calibration level. This criteria must be met prior to sample analysis.

All of these criteria must be met prior to sample analysis.

10.3 Equipment Operation and Sample Processing

10.3.1 GC/MS ANALYSIS

10.3.1.1 The Entech 7200 or 7200A Concentrator is programmed to the specific analytical conditions listed in Table 6 (Entech method Alpha_TO15.CTD) and the GC/MS parameters are set to those listed in Sections 10.3.1 and 10.3.2. (Enviroquant method TO15-SFS.M (SIM and full scan) or TO15_FS_35C.M (full scan only, for sulfide & mercaptan analysis in App. A)).

10.3.1.2 The BFB spectrum is evaluated by analyzing a Laboratory Method Blank and adding 100 mL of the BFB/surrogate mix.

10.3.1.3 A continuing calibration and/or a laboratory control spike is analyzed. See sect. 9.2 for acceptable criteria, and refer to Appendices D - F for agency – specific criteria on continuing calibration and laboratory control spike criteria.

10.3.1.4 A Laboratory Method Blank is analyzed. The Laboratory Method Blank consists of the analysis of 250 mL from a canister of humidified nitrogen. The method blank must be free of target analyte contamination at or above the reporting limit.

10.3.1.5 A 250-mL aliquot of sample is preconcentrated on the Entech 7200 or 7200A concentrator and injected onto the GC column. For soil vapor samples, or other samples that may contain elevated levels, the aliquot amount must be determined using the results from a pre-screening analysis. Sample concentrations are determined using the following equation:

$$ppbV = [(A_{EC}) * (C_i)] / [(A_{EI}) * (RRF)]$$

10.3.1.6 Instrument Dilutions and Sub-Atmospheric Sample dilutions

10.3.1.6.1 For dilutions, smaller sample volumes (<250 mL) are analyzed. The smallest volume that can be analyzed with accuracy using the Entech concentrator is 10 mL. The dilution factor is accounted for by entering the volume analyzed in the sample calculation discussed in Section 10.2.2.2 (Equation 2).

10.3.1.6.2 Samples that arrive at the laboratory with pressures below -15 inches Hg should be pressurized with nitrogen to greater than -15 inches Hg, as discussed in Section 6.4. This pressurization results in a dilution factor. The dilution factor is calculated using Equation 6, and the canister dilution spreadsheet (Form No.: 117-05). Attach a green tag to the canister with the pressurization information (initial pressure and final pressure) recorded on the tag.

Equation 6: Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7-liter canister is used).

$$\mathbf{V_{ci} = 2.7 * P_I / 14.696}$$

Step 2: Calculate the volume in the canister after pressurization.

$$\mathbf{V_{cf} = 2.7 * P_F / 14.696}$$

Step 3: Calculate the dilution factor.

$$\mathbf{DF = V_{cf} / V_{ci}}$$

where:

V_{ci}= volume of air in canister prior to pressurization, L

P_I = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

P_F = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

10.3.1.6.3 If samples require larger dilutions than pressurization and instrument dilutions, a syringe dilution into an additional canister or Tedlar bag (typically used only for App. A analytes) with a known volume of nitrogen is required.

10.3.1.6.4 Fit a VCO® adapter with a septa to the pressurized sample canister. With a gastight syringe remove appropriate sample size for dilution. Allow sample to flow through syringe for 1 – 2 seconds to flush syringe prior to volumizing. Inject the sample aliquot into a Tedlar bag. If using an evacuated canister, connect the canister to an injection port tee (see Figure 3) attached to the dynamic diluter. Inject the aliquot of sample while a steady stream of Nitrogen is flowing into the dilution canister. Pressurize this canister to 30 psia. Attach a green tag to the canister with dilution information recorded on the tag. Use the dilution calculation worksheet (Form No.: 117-05) to calculate resulting dilutions.

10.3.2 Qualitative Identifications

10.3.2.1 An analyst competent in the interpretation of mass spectra must identify the target analytes by comparison of the sample mass spectrum to the mass spectrum of the standard. Two criteria must be satisfied to verify the identification: (1) elution of the component in the sample at the same GC relative retention time (RRT) as the component in the standard, and (2) agreement of the sample component and standard component mass spectra.

10.3.2.2 For establishing correspondence of the GC RRT, the RRT of the component in the sample must compare within ± 0.06 RRT units of the RRT of the component in the standard. If co-elution of interfering components prohibits accurate assignment of the sample component RRT from the total ion chromatogram, the RRT must be assigned using extracted ion current profiles for the ion unique to the component of interest.

10.3.2.3 For comparison of the standard and sample component mass spectra, mass spectra of standards obtained on the GC/MS under the same instrument conditions are required. Reference spectra should be updated for each initial calibration performed, using the mid-level standard. Once obtained, these standard spectra may be used for identification and reference purposes.

10.3.2.4 The requirements for qualitative verification by comparison of mass spectra are as follows:

- All ions present in the standard mass spectra at a relative intensity greater than 10% (most abundant ion in the spectrum equals 100%) must be present in the sample spectrum.
- The relative intensities of ions specified must agree within ± 20% between the standard and sample spectra.
- Ions greater than 10% in the sample spectrum must be considered and accounted for by the analyst making the comparison.

Table 7 lists the primary and secondary ions for all analytes.

10.3.2.5 Manual integrations: for peaks that are observed to be not integrated correctly by the quantitation software, manual integrations must be performed. Please refer to the manual integration SOP for further instruction on how to properly perform and document manual integrations (Alpha SOP # 1731).

10.3.2.6 **Tentatively identified compounds (TICs)-**A library search may be performed for non-target sample components for the purpose of tentative identification, as requested by the client. Mass spectra are compared to the National Institute of Standards and Technology Mass Spectral Library (2002 version), and a qualitative match is determined by the analyst. Computer generated library search routines must not use normalization routines that would misrepresent the library or unknown spectra when

compared to each other. Refer to Appendices D - F for agency –specific criteria on TIC reporting.

10.3.2.7 Guidelines for making tentative identification:

- Relative intensities of major ions in the reference spectrum (ions greater than 20% of the most abundant ion) must be present in the sample spectrum.
- The relative intensities of the major ions must agree within ± 30%.
- Molecular ions present in the reference spectrum must be present in the sample spectrum.
- Ions present in the sample spectrum but not in the reference spectrum must be reviewed for possible background contamination or presence of coeluting compounds.
- If, in the technical judgment of the mass spectral interpretation specialist, no valid tentative identification can be made, the compound will be reported as "Unknown". The mass spectral interpretation specialist should give additional classification of the unknown compound, if possible (i.e., unknown aromatic, unknown hydrocarbon, unknown acid, unknown chlorinated compound)..

10.4 Continuing Calibration

10.4.1 Calibration Verification

10.4.1.1 The initial calibration must be verified through the analysis of an Initial Calibration Verification (ICV) sample. (The ICV may also be used to satisfy LCS requirements.) This analysis must be performed every time an initial calibration is performed.

10.4.1.2 The ICV must be prepared using a purchased gaseous standard (from a different lot # or separate vendor) with the components of interest in an evacuated FSL canister. Follow the standard preparation procedure for the calibration standards outlined in Section 8.0. The standard must be prepared at or below the midpoint of the calibration curve.

See section 10.4.2.6 for acceptable criteria and Section 12 for corrective actions.

10.4.2 Continuing Calibration

10.4.2.1 A continuing calibration check must be performed daily prior to sample analysis. The continuing calibration standard must be one of the initial calibration levels.

10.4.2.2 Analyze a calibration standard that is at the midpoint of the calibration curve.

10.4.2.3 The LCS standard may be utilized as the continuing calibration check, provided that all target analytes of interest are present in the LCS standard.. Refer to Appendices D - F for agency –specific criteria on LCS criteria.

10.4.2.4 Evaluate continuing calibration for internal standard recoveries. Recoveries must be between 60-140%. If not, the CCV will be re-analyzed.

10.4.2.5 Calculate the percent difference (%D) of the continuing calibration response factor from the initial calibration average response factor using Equation 5.

Equation 5: Percent Difference

$$\% D = [(C_{found})-(C_{true}) / (C_{true})] * 100$$

where:

%D = percent difference

C_{found} = amount of the analyte detected in the standard (ppbV)
C_{true} = true amount of the analyte in the standard (ppbV)

This task can also be accomplished using the quantitation software provided by the instrument manufacturer.

10.4.2.6 Acceptance Criteria

The acceptance criteria is less than 30% RSD for any analyte, with an allowance of two analytes to be greater than 30%, but less than 40%.

Alpha may use the following modified acceptance criteria only for projects that have documentation and approval within the QAPP by the quality assurance project planners, and also for analytes not listed in EPA Method TO-15:

If the %RSD is <30 for each analyte, linearity can be assumed for the associated target analyte and sample analysis may proceed.

10.4.2.7 If the %RSD is >30 for any analyte, the integrations must be evaluated and the calculations verified. If a %RSD <30 cannot be achieved, it is acceptable for 10% of the total analytes to be above 30%, but below 50% RSD. Before acceptance of such a Calibration Curve, it must be confirmed with the approval of the Section Supervisor and/or the Project Manager that these analytes are typically and historically "trouble" analytes or "poor performers" (typically compounds listed in Table 3B), and that all Client and Project Data Quality Objectives (DQOs) will still be met when

analyzing samples using this calibration. . Refer to Appendices D - F for agency –specific criteria on initial calibration acceptance criteria.

10.4.2.8 Refer to Sect. 12 for additional procedures regarding continuing calibration acceptance criteria and corrective actions if criteria are not met.

10.5 Preventive Maintenance

Mass flow controllers should be checked annually for flowrate accuracy using a BIOS cell or other primary flow measurement device.

Ion source cleaning – typically prior to initial calibration.

Electron Multiplier (EM)-changed when the voltage setting required to achieve adequate response approaches 1900.

Rough pump oil changed annually.

Transfer lines, concentrator traps, and the GC guard column should be changed semi-annually, or when system repeatedly fails initial calibration.

11. Data Evaluation, Calculations and Reporting

11.1 Calculations

11.1.1 Individual Target Analytes: The average response factor from the initial calibration is used to calculate the amount of analyte detected in the sample analyses. Standards are prepared on a ppbV basis, so if no dilution is performed, values can be reported from the quantitation report without any calculations. Dilution factors are calculated using Equation 2. Equation 7 shows the conversion of ppbV to µg/m^3 .

Equation 7: Conversion of ppbV to µg/m^3

µg/m^3 = (ppbV) * MW / 24.45

where:

24.45 = molar gas constant (g/g-mole)
MW = molecular weight of the compound of interest (Table 1 and 2 lists the molecular weights of the target analytes)

11.1.2 TICS: An estimated amount for the TIC is calculated using the total area of the TIC, the total area of the internal standard assigned by the quantitation software, and a response factor of 1.000 (Equation 8). If the internal standard assigned by the quantitation software exhibits significant interference from other analytes, the next closest eluting internal standard will be utilized. Refer to Appendices D – F for agency-specific criteria on reporting TICS.

Equation 8: Calculation of TIC Results in ppbV

$ppbV = [(A_T) * (C_{IS})] / [(A_{IS-T}) * (1.000)]$

where:

A_T = total ion area of the TIC to be measured

C_{IS} = amount of the internal standard

A_{IS-T} = total ion area of the closest eluting internal standard

The integration of target analytes and internal standards must be performed from valley to valley.

11.1.3 Percent Recovery

$$\% \text{ Recovery} = \frac{C_x}{C_t} \text{ X } 100$$

where:
C_x = measured concentration of compound
C_t = true concentration of compound

11.2 Data Package

11.2.1 Canister Cleaning Information

A copy of the data for the batch certification analysis associated with the FSL canisters must be on file. The raw data must include a sample chromatogram, quantitation report, and spectra of all positive results.

11.2.2 BFB Tune Checks

Tune checks must be included for all days of analysis, including initial calibration. Raw data must include the chromatogram, mass spectra, and summary of relative abundances of the BFB ions.

11.2.3 Calibration Data

- Initial calibration summary (including average response factors, %RSDs, and copies of calibration curves, if appropriate) for target analytes and all calibration chromatograms must be on file.
- Continuing calibration summaries (including %Ds) for individual analytes.
- Chromatograms and quantitation reports associated with all standards used, in the initial and continuing calibrations.

11.2.4 QA/QC

- Internal standard responses and % recoveries vs. the continuing calibration.
- Quantitation report and chromatogram for laboratory control spike (and laboratory control spike duplicate, if requested).

- Quantitation reports, chromatograms, and spectra of positive results for all blanks.
- Copy of the instrument runlog.

11.2.5 Sample Data

- Quantitation reports, chromatograms, spectra of positive results, negative proofs, and pre- and post-manual integrations for all LCSs, samples, and duplicates.
- A copy of the canister dilution worksheet, Form No.: 117-05 (if any canister pressurizations or canister dilutions are performed).

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method. When results indicate atypical method performance, a calibration verification standard is used to confirm the measurements were performed in an in-control mode of operation.

Holding time exceedence and/or container damage is noted on the Sample Delivery Group form.

Perform routine preventative maintenance following manufacturer's specification. Record all maintenance in the instrument logbook.

Review of standards, blanks and standard response for acceptable performance occurs for each batch of samples. Record any trends or unusual performance on a nonconformance action form. The method blank must be free of target analyte contamination at or above the reporting limit. If it is not, the system must be evaluated for possible sources of contamination. Once the source is determined and eliminated, the method blank must be reanalyzed.

If the ICV, CCV, LCS or LCSD recovery of any parameter falls outside the designated acceptance range, the laboratory performance for that parameter is judged to be out of control, and the problem must be immediately identified and corrected. The analytical result for that parameter in the unspiked samples is suspect and is only reported for regulatory compliance purposes with the appropriate Narratives. Immediate corrective action includes reanalyzing all affected samples (provided sufficient volume of sample remains) by using any retained sample before the expiration of the holding time. If sufficient volume is not available, Alpha will narrate accordingly. Analytes that fail ICV, CCV and LCS criteria due to elevated recoveries may be reported, provided there are no detections in the associated samples.

Samples exhibiting internal standard recovery failures must be re-analyzed at the same dilution level if instrument malfunction is suspected to be the cause, or at a lesser dilution if sample matrix or concentration levels of target and/or non-target analytes are suspected of being the cause. If recovery failures are observed upon re-analysis, narrate bias accordingly (negative if high recovery, positive if low recovery).

When applicable criteria is not met (ICV, CCV, LCS, IS), Alpha will narrate bias which will be included in the opening narrative of the report.

13. Method Performance

13.1 Method Detection Limit Study (MDL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

The laboratory follows the procedure to determine the MDL, LOD, and/or LOQ as outlined in Alpha SOP # 1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

Refer to Alpha SOP # 1739 for further information regarding IDC/DOC Generation.

13.2.1 Initial (IDC)

The analyst must make an initial, one-time, demonstration of the ability to generate acceptable accuracy and precision with this method, prior to the processing of any samples.

13.2.2 Continuing (DOC)

The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

Refer to Alpha's Chemical Hygiene Plan and Waste Management and Disposal SOP for further pollution prevention and waste management information.

15. Referenced Documents

Chemical Hygiene Plan

SOP # 1732 MDL/LOD/LOQ Generation

SOP # 1739 IDC/DOC Generation

SOP # 1797 Hazardous Waste & Sample Disposal

SOP # 1731 Manual Integration

Form 117-05: Canister Dilution Worksheet Template

Form 117-09: Instrument Run Log

Form 117-11: Primary Standard Preparation Log

Form 12925: Secondary Standard Preparation Log

16. Attachments

Table 1 TO-15 Tedlar® Bag Stock Standard Preparation for LCS

Table 2A TO-14 Primary Mix #1 & TO-15 Mix #2 Stock Standard Cylinder

Table 2B TO-15 Custom Mix #3 Stock Standard Cylinder

Table 2C TO-15 Custom Mix #4 Stock Standard Cylinder

Table 2D TO-15 Custom Mix #5 Stock Standard Cylinder

Table 3A Summary of Working Standard Preparation

Table 3B Preparation of Calibration Standards for Low Vapor Pressure Compounds

Table 4 Calibration Standard Levels

Table 5 BFB Key Ions and Abundance Criteria

Table 6 Entech 7200 or 7200A /7016D Operating Parameters

Table 7 Quantitation and Secondary Ions for TO-15 Analytes and Internal Standards

Table 8 Internal Standards and the Associated Target Analytes

Table 9A TO-15 Target Analytes and Reporting Limits-Standard List

Table 9B TO-15 Target Analytes and Reporting Limits-Additional Analytes

Appendix A Cold Trap Dehydration technique (CTD) for Analysis of Sulifides and Mercaptans

Appendix B Data Acquisition Parameters and Analysis Modifications for Conducting SIM Analysis

Appendix C Modifications to Data Review and Case Narrative to Comply with MADEP MCP-TO-15 Method

Appendix E Modifications to Data Review and Case Narrative to Comply with 2014 NJDEP Technical Guidance for EPA Method TO-15

Appendix F Modifications to Data Review and Case Narrative to Comply with Ohio EPA Voluntary Action Program (VAP) Requirements for EPA Method TO-15

DEFINITIONS

Absolute canister pressure - Pg + Pa, where Pg = gauge pressure in the canister (psig) and Pa = barometric pressure.

Absolute pressure - Pressure measured with reference to absolute zero pressure (as opposed to atmospheric pressure), usually expressed as kPA, mm Hg, or psia (pounds per square inch absolute).

Cryogen - The refrigerant used to obtain very low temperatures in the cryogenic trap of the analytical system. A typical cryogen is liquid nitrogen (bp = -196^{0}C).

Gauge pressure - Pressure measured above atmospheric pressure (as opposed to absolute pressure). Zero gauge is equal to ambient atmospheric (barometric) pressure. Units = psig (pounds per square inch gauge).

ppmV – parts per million on a volume basis.

ppbV – parts per billion on a volume basis

psia – pounds per square inch absolute

Relative retention time (RRT)– retention time (RT) ratio of the target analyte and the internal standard used to quantitate (RT target / RT internal standard).

Table 1

TO-15 Tedlar® Bag Stock Standard Preparation- LCS/ICV Standard

ICV / LCS Standard				
COMPOUND (liquids)	**MOL WGT**	**Density ug/uL**	**uL injected***	**FINAL ppmV**
Acetone	58.1	791	12.0	200
Isopropyl alcohol	60.1	785	4.8	76.7

All neat chemicals are injected into a Tedlar® bag containing 20 Liters of zero air or UHP nitrogen.

See Table A-1 & Table A-4 for sulfide/mercaptan stock standard preparation

Table 2A

TO-15 Purchased Primary Standard Mix

TO-14 Primary Standard Mix #1

COMPOUND	MOL WGT	Conc. ppmV	COMPOUND	MOL WGT	Conc. ppmV
dichlorodifluoromethane	120.92	1.0	cis-1,3-dichloropropene	110.97	1.0
chloromethane	50.49	1.0	trans-1,3-dichloropropene	110.97	1.0
Freon-114	170.92	1.0	1,1,2-trichloroethane	133.41	1.0
vinyl chloride	62.5	1.0	toluene	92.14	1.0
bromomethane	94.94	1.0	1,2-dibromoethane	187.87	1.0
chloroethane	64.52	1.0	tetrachloroethene	165.83	1.0
trichlorofluoromethane	137.37	1.0	chlorobenzene	112.56	1.0
1,1-dichloroethene	96.94	1.0	ethylbenzene	106.17	1.0
methylene chloride	84.93	1.0	m-xylene	106.17	1.0
Freon-113	187.38	1.0	p-xylene	106.17	1.0
trans-1,2-dichloroethene	98.96	1.0	styrene	104.15	1.0
1,1-dichloroethane	98.96	1.0	1,1,2,2-tetrachloroethane	167.85	1.0
cis-1,2-dichloroethene	96.94	1.0	o-xylene	106.17	1.0
chloroform	119.38	1.0	1,3,5-trimethylbenzene	120.2	1.0
1,2-dichloroethane	98.96	1.0	1,2,4-trimethylbenzene	120.2	1.0
1,1,1-trichloroethane	133.41	1.0	1,3-dichlorobenzene	147.0	1.0
benzene	78.11	1.0	1,4-dichlorobenzene	147.0	1.0
carbon tetrachloride	153.82	1.0	1,2-dichlorobenzene	147.0	1.0
1,2-dichloropropane	113	1.0	1,2,4-trichlorobenzene	181.45	1.0
trichloroethene	131.38	1.0	hexachlorobutadiene	260.76	1.0

TO-15 Primary Standard Mix #2

COMPOUND	MOL WGT	Conc. ppmV
Propylene	42.08	1.0
1,3-butadiene	54.09	1.0
Vinyl bromide	106.96	1.0
Acetone	58.08	1.0
Isopropyl alcohol	60.1	1.0
Carbon disulfide	76.14	1.0
3-chloropropene	76.53	1.0
Trans-1,2-dichloroethene	96.94	1.0
Methyl-tert butyl ether	88.15	1.0
Vinyl acetate	86.09	1.0
2-butanone (MEK)	72.11	1.0
Hexane	86.18	1.0
Ethyl acetate	88.11	1.0
Tetrahydrofuran	72.11	1.0
Cyclohexane	84.16	1.0
Bromodichloromethane	163.83	1.0
1,4-dioxane	88.11	1.0
2,2,4-trimethylpentane	114.23	1.0
Heptane	100.21	1.0
4-methyl-2-pentanone (MIBK)	100.16	1.0
2-hexanone	100.16	1.0
Dibromochloromethane	208.29	1.0
Bromoform	252.75	1.0
Benzyl chloride	126.59	1.0
4-ethyl toluene	120.2	1.0

Table 2B

TO-15 Purchased Custom Mix #3

TO-15 Custom Standard Mix					
COMPOUND	**MOL WGT**	**Conc. ppmV**	**COMPOUND**	**MOL WGT**	**Conc. ppmV**
Propane	44.10	1.0	n-Octane	114.23	1.0
Chlorodifluoromethane	86.47	1.0	1,1,1,2-Tetrachloroethane	167.85	1.0
Methanol	32.04	5.0	1,2,3-Trichloropropane	147.43	1.0
n-Butane	58.12	1.0	Nonane	128.26	1.0
Dichlorofluoromethane	102.92	1.0	Isopropylbenzene	120.19	1.0
Ethanol	46.07	5.0	Bromobenzene	157.01	1.0
Acetonitrile	41.05	1.0	2-Chlorotoluene	126.58	1.0
Acrolein	56.10	1.0	n-Propylbenzene	120.19	1.0
n-Pentane	72.20	1.0	4-Chlorotoluene	126.58	1.0
Acrylonitrile	53.10	1.0	tert-Butylbenzene	134.20	1.0
Ethyl Ether	74.12	1.0	n-Decane	142.28	1.0
tert-Butyl Alcohol	74.12	1.0	sec-Butylbenzene	134.20	1.0
2,2-Dichloropropane	112.99	1.0	p-Isopropyltoluene	134.22	1.0
Di-Isopropyl Ether	102.17	1.0	n-Butylbenzene	134.20	1.0
Tert-Butyl Ethyl Ether	102.20	1.0	1,2-Dibromo-3-chloropropane	236.33	1.0
1,1-Dichloropropene	110.97	1.0	n-Undecane	156.31	1.0
Tert Amyl Methyl Ether	102.17	1.0	Naphthalene	128.17	1.0
Dibromomethane	173.83	1.0	n-Dodecane	170.33	1.0
1,3-Dichloropropane	112.99	1.0	1,2,3-Trichlorobenzene	181.45	1.0
n-Butyl Acetate	116.16	1.0			

All mixes currently purchased fromPraxair (formerly Linde and Spectra Gases)

Table 2C

TO-15 / PIANO Custom Mix #4

COMPOUND (liquids)	Boiling Pt, deg C	Molecular Weight	Density ug/uL	uL injected*	FINAL ppmV
1,1-difluoroethane (gas)	-24.7	66.05	NA	10 mL	5.0
1-ethyl-1-methylcyclopentane	121.55	112.21	785.4	11.9	1.0
Indan	177	118.18	965.0	10.2	1.0
Indene	182	116.16	996.0	9.7	1.0
1,2,3-trimethylbenzene	176	120.19	890.0	11.2	1.0
Acetaldehyde	20.2	44.05	785	23.3	5.0
Acetone	56.1	58.08	784.5	24.6	4.0
isopropyl alcohol	82.6	60.1	786	9.5	1.5
methyl methacrylate	101	100.1	940	8.8	1.0

Table 2D

TO-15 / PIANO Custom Mix #5

COMPOUND (liquids)	Boiling Pt, deg C	Molecular Weight	Density ug/uL	uL injected*	FINAL ppmV
Thiophene	83	84.14	1060	6.6	1.0
2-Ethylthiophene	133	112.19	990	9.4	1.0
2-methyllthiophene	114	98.17	1016	8.0	1.0
3-Methylthiophene	113	98.17	1017	8.0	1.0

* both mixes #4 and #5 prepared in 29.5 L high pressure cylinders, pressurized to 995 psia with UHP nitrogen. Total volume of standard is 1997 L. Two year expiration date.

Table 3A

Summary of Secondary Standards Preparation

Primary Standard	Primary Standard Conc. ppmV	Volume of Primary Standard Injected into canister	Primary Standard Transfer Method	Final Volume canister (L)	Final Concentration ppbV **
Secondary standards prepared using precision dilution system (Entech 4700)					
TO-15 Mixes #1 - #5	1.0	3000 mL	Pressure differential	30	100
TO-15 Mixes #1 - #5	1.0	300 mL	Pressure differential	51	10 ***
Secondary standards prepared via serial dilution					
100 ppbV ICAL mix	1.0	300 mL	Syringe Injection	30	1.0
100 ppbV ICAL mix	0.1 *	30 mL	Syringe Injection	30	0.1

All standards prepared using humidified nitrogen.

* This calibration standard is used for TO-15 SIM analysis only (see Appendix B).

** The following analytes have concentrations that are greater than the listed concentration

Methanol, acetylaldehyde, and ethanol – 5 times greater

m&p-xylene- 2 times greater

Isopropyl alcohol-2.5 times greater

*** 10 ppbV standards that are prepared at a pressure of 50 psia are split out into additional empty 15L canisters to reduce the pressure in the standard and allow for additional canisters to be prepared for continuing calibration usage.

Table 3B

Preparation of Calibration Standards for Low Vapor Pressure Compounds

COMPOUND (solids)	Vapor Pressure* (P), atm	Molecular Weight	Volume (V) extracted, mL	Gas Constant (R) (L atm/gm mol K)	T, °K	n**	Final Volume, L	mg	ug/m³	ppbV
1-methylnaphthalene	7.11E-05	142.20	7.1	0.082057	298.1	2.44E-08	51	0.00347	115.7	10
1-methylnaphthalene	7.11E-05	142.00	42	0.082057	298.1	1.22E-07	30	0.0173255	577.5	100
2-methylnaphthalene	8.96E-05	142.00	5.8	0.082057	298.1	2.491E-08	51	0.0035373	117.9	10.2
2-methylnaphthalene	8.96E-05	142.00	34	0.082057	298.1	1.246E-07	30	0.0176867	589.6	101.6
benzothiophene	7.70E-05	134.20	6.5	0.082057	291.5	2.446E-08	51	0.0032824	109.4	10.0
benzothiophene	7.70E-05	134.20	38	0.082057	291.5	1.223E-07	30	0.016412	547.1	100

Approximately 5.0 g of solid material was allowed to stand in a 250 mL jar w/ septa cap for 30 min prior to removal of vapor phase aliquot. The aliquot was then spiked directly into secondary standard.

All vapor pressure values from Lange's Handbook of Chemistry & Physics

Table 4

Calibration Standard Levels

Calibration Level	Amount (ppbV)	Volume / Secondary Standard
1	0.20	50 mL of 1.0 ppbV sec. standard
2	0.50	125 mL of 1.0 ppbV sec. standard
3	1.0	250 mL of 1.0 ppbV sec. standard
4	5.0	125 mL of 10 ppbV sec. standard
5	10	250 mL of 10 ppbV sec. standard
6	20	50 mL of 100 ppbV sec. standard
7	50	125 mL of 100 ppbV sec. standard
8	100	250 mL of 100 ppbV sec. standard

Table 5

BFB Key Ions and Abundance Criteria

Mass	Ion Abundance Criteria
50	8.0-40.0 percent of the base peak
75	30.0-66.0 percent of the base peak
95	Base peak, 100 percent relative abundance
96	5.0-9.0 percent of the base peak
173	Less than 2.0% of mass 174
174	50.0 to 120.0% of mass 95
175	4.0-9.0 percent of mass 174
176	Greater than 93.0 percent but less than 101.0 percent of mass 174
177	5.0-9.0 percent of mass 176

Table 6

ENTECH 7016D/ 7200 or 7200A Operating Parameters

Module 1 (Cold Trap)	
Parameter	**Setting**
Trapping Temperature	-40° C
Internal standard / surrogate volume	100 mL
Internal standard / surrogate flow rate	100 mL / min
Nominal Sample volume (may vary depending on sample concentrations)	250 mL
Sample flow rate, mL / min	100 mL / min
Preheat Temperature	10° C
Desorb Temperature	10° C
Bake Temperature	220° C
Bake Time	10 min
Module 1 to Module 2 transfer volume / rate	20 cc @ 5.0 cc/min
Module 2 (Tenax trap)	
Parameter	**Setting**
Trapping Temperature	-65° C to -75° C
Desorb Temperature	220° C
Bake Temperature	220° C
Module 2 to Module 3 desorb time	3.5 min
Module 3 (Cryofocusser)	
Parameter	**Setting**
Cryofocusing Temperature	-130° C to -190° C
Desorb Temperature	Approx. 90° C
Module 3 to GC desorb time	3.0-3.5 min
Bake temperature / event	Approx. 90° C / event 3
Delay time	13-17 min

Table 7
Quantitation and Secondary Ions for TO-15 Analytes and Internal Standards

Compound	Quant. Ion	Sec. Ion(s)	Compound	Quant. Ion	Sec. Ion(s)	Compound	Quant. Ion	Sec. Ion(s)
bromochloromethane	49	130	1,4-difluorobenzene	114	63	bromoform	173	171, 175
chlorodifluoromethane	51	67	n-hexane	57	43, 86	styrene	104	103, 78
propylene	41	39, 42	diisopropyl ether	87	45, 59	1,1,2,2-tetrachloroethane	83	85
propane	29	43,39	ethyl acetate	61	43, 70	o-xylene	91	106
dichlorodifluoromethane	85	87	2,2-dichloropropane	77	41, 97	1,2,3-trichloropropane	75	39, 110
chloromethane	50	52	tetrahydrofuran	42	71, 72	nonane	43	57, 128
Freon-114	85	87, 135	tert-butyl ethyl ether	59	87, 57	bromofluorobenzene	95	75, 174
methanol	31	32,29	1,2-dichloroethane-D4	65	67, 102	isopropylbenzene	105	120
vinyl chloride	62	64,	1,1,1-trichloroethane	97	61, 119	bromobenzene	77	156
1,3-butadiene	54	39	1,1-dichloropropene	75	39,110	2-chlorotoluene	126	91
butane	43	41,58	benzene	78	52	n-propylbenzene	120	91
bromomethane	94	96	carbon tetrachloride	117	119, 82	4-chlorotoluene	91	126
chloroethane	64	66	cyclohexane	56	84, 41	4-ethyl toluene	105	91, 120
dichlorofluoromethane	67	69, 47	tert-amyl methyl ether	73	43, 87	1,3,5-trimethylbenzene	105	91, 120
ethanol	31	45	dibromomethane	93	95, 174	tert-butlybenzene	119	134
acetonitrile	41	40	1,2-dichloropropane	63	39, 62	1,2,4-trimethylbenzene	105	91, 120
vinyl bromide	106	108	bromodichloromethane	83	85, 129	decane	57	43, 142
acrolein	56	55,29	trichloroethene	130	132, 97	benzyl chloride	91	126
acetone	43	58	1,4-dioxane	88	58	1,3-dichlorobenzene	146	75, 111
trichlorofluoromethane	101	103	2,2,4-trimethylpentane	57	41, 99	1,4-dichlorobenzene	146	75, 111
isopropyl alcohol	45	59	n-heptane	43	57, 100	sec-butylbenzene	105	134
acrylonitrile	53	52,51	cis-1,3-dichloropropene	75	39, 77	p-isopropyltoluene	119	134
pentane	43	57,72	4-methyl-2-pentanone	43	58, 100	1,2-dichlorobenzene	146	75, 111
ethyl ether	31	59,45	methyl methacrylate	41	69, 100	n-butylbenzene	91	134
1,1-dichloroethene	61	96, 63	trans-1,3-dichloropropene	75	39, 77	1,2-dibromo-3-chloropropane	75	39, 157
Tertiary butyl Alcohol	59	41, 43	1,1,2-trichloroethane	97	61, 83	undecane	57	43, 71, 156
methylene chloride	49	84	Thiophene	84	45, 58	dodecane	57	43
3-chloropropene	41	39, 76	chlorobenzene-D5	54	82, 117	1,2,4-trichlorobenzene	180	109, 145
carbon disulfide	76	44	toluene	91	92	naphthalene	128	102
Freon 113	101	85, 151	toluene-D8	98	100	1,2,3-trichlorobenzene	180	109, 145
trans-1,2-dichloroethene	61	96, 98	1,3-dichloropropane	76	41,49	hexachlorobutadiene	225	118, 260
1,1-dichloroethane	63	65	2-hexanone	43	58, 100	2-methylthiophene	97	45, 98
MTBE	73	57, 43	dibromochloromethane	129	127, 131	3-methylthiophene	97	45, 98
vinyl acetate	43	86	1,2-dibromoethane	107	109	2-ethylthiophene	97	45, 112
2-butanone	43	72	butyl acetate	73	43, 56	1,2,3-trimethylbenzene	105	120
cis-1,2-dichloroethene	61	96, 98	octane	85	43, 57, 114	indan	117	91, 118
chloroform	83	85, 47	tetrachloroethene	166	94, 131	indene	115	89, 116
1,2-dichloroethane	62	49, 63, 64	1,1,1,2-tetrachloroethane	131	95, 133	1,2,4,5-tetramethylbenzene	119	91, 134
acetaldehyde	29	43, 44	chlorobenzene	112	77, 114	benzothiophene	134	63, 89
			ethylbenzene	91	106	2-methylnaphthalene	142	115, 141
			m+p-xylene	91	106	1-methylnaphthalene	142	115, 141

Table 8

Internal Standards and the Associated Target Analytes

bromochloromethane		1,4-difluorobenzene	chlorobenzene-D5	
chlorodifluoromethane	trans-1,2-dichloroethene	hexane	toluene	decane
propylene	1,1-dichloroethane	diisopropyl ether	toluene-D8	benzyl chloride
propane	MTBE	tert-butyl ethyl ether	1,3-dichloropropane	1,3-dichlorobenzene
dichlorodifluoromethane	vinyl acetate	1,2-dichloroethane-D4	2-hexanone	1,4-dichlorobenzene
chloromethane	2-butanone	1,1,1-trichloroethane	dibromochloromethane	sec-butylbenzene
Freon-114	cis-1,2-dichloroethene	1,1-dichloropropene	1,2-dibromoethane	p-isopropyltoluene
methanol	chloroform	benzene	butyl acetate	1,2-dichlorobenzene
vinyl chloride	1,2-dichloroethane	carbon tetrachloride	Octane	n-butylbenzene
1,3-butadiene	trans-1,2-dichloroethene	cyclohexane	tetrachloroethene	1,2-dibromo-3-chloropropane
butane	1,1-dichloroethane	tert-amyl methyl ether	1,1,1,2-tetrachloroethane	undecane
bromomethane	acetaldehyde	dibromomethane	Chlorobenzene	dodecane
chloroethane	ethyl acetate	1,2-dichloropropane	Ethylbenzene	1,2,4-trichlorobenzene
dichlorofluoromethane	2,2-dichloropropane	bromodichloromethane	m+p-xylene	naphthalene
ethanol	tetrahydrofuran	trichloroethene	Bromoform	1,2,3-trichlorobenzene
acetonitrile		1,4-dioxane	Styrene	hexachlorobutadiene
vinyl bromide		2,2,4-trimethylpentane	1,1,2,2-tetrachloroethane	2-methylthiophene
acrolein		heptane	o-xylene	3-methylthiophene
acetone		cis-1,3-dichloropropene	1,2,3-trichloropropane	2-ethylthiophene
trichlorofluoromethane		4-methyl-2-pentanone	Nonane	1,2,3-trimethylbenzene
isopropyl alcohol		methyl methacrylate	bromofluorobenzene	indan
acrylonitrile		trans-1,3-dichloropropene	isopropylbenzene	indene
pentane		1,1,2-trichloroethane	bromobenzene	1,2,4,5-tetramethylbenzene
ethyl ether		thiophene	2-chlorotoluene	benzothiophene
1,1-dichloroethene			n-propylbenzene	2-methylnaphthalene
Tertiary butyl Alcohol			4-chlorotoluene	1-methylnaphthalene
methylene chloride			4-ethyl toluene	
3-chloropropene			1,3,5-trimethylbenzene	
carbon disulfide			tert-butlybenzene	
Freon 113			1,2,4-trimethylbenzene	

Table 9A

TO-15 Target Analytes and Reporting Limits
Standard List

COMPOUND	CAS #	Standard Reporting Limit, ppbV	Standard Reporting Limit, ug/m^3
1,1,1-trichloroethane	71-55-6	0.2	1.09
1,1,2,2-tetrachloroethane	79-34-5	0.2	1.37
1,1,2-trichloroethane	79-00-5	0.2	1.09
1,1-dichloroethane	75-34-3	0.2	0.81
1,1-dichloroethene	75-35-5	0.2	0.79
1,2,4-trichlorobenzene	120-82-1	0.2	1.48
1,2,4-trimethylbenzene	95-63-6	0.2	0.98
1,2-dibromoethane	106-93-4	0.2	1.54
1,2-dichlorobenzene	95-50-1	0.2	1.2
1,2-dichloroethane	107-06-2	0.2	0.81
1,2-dichloropropane	78-87-5	0.2	0.92
1,3,5-trimethylbenzene	108-67-8	0.2	0.98
1,3-butadiene	106-99-0	0.2	0.44
1,3-dichlorobenzene	541-73-1	0.2	1.2
1,4-dichlorobenzene	106-46-7	0.2	1.2
1,4-dioxane	123-91-1	0.2	0.72
2,2,4-trimethylpentane	540-84-1	0.2	0.93
2-butanone	78-93-3	0.5	1.48
2-hexanone	591-78-6	0.2	0.82
3-chloropropene	107-05-1	0.2	0.63
4-Ethyltoluene	622-96-8	0.2	0.98
Acetone	67-64-1	1.0	2.38
benzene	71-43-2	0.2	0.64
Benzyl Chloride	100-44-7	0.2	1.03
bromodichloromethane	75-27-4	0.2	1.34
bromoform	75-25-2	0.2	2.07
bromomethane	74-83-9	0.2	0.78
carbon disulfide	75-15-0	0.2	0.62
carbon tetrachloride	56-23-5	0.2	1.26
chlorobenzene	108-90-7	0.2	0.92
chloroethane	75-00-3	0.2	0.53
chloroform	67-66-3	0.2	0.98

COMPOUND	CAS #	Standard Reporting Limit, ppbV	Standard Reporting Limit, ug/m^3
chloromethane	74-87-3	0.2	0.41
cis-1,2-dichloroethene	156-59-2	0.2	0.79
cis-1,3-dichloropropene	10061-01-5	0.2	0.91
cyclohexane	110-82-7	0.2	0.69
dibromochloromethane	124-48-1	0.2	1.7
dichlorodifluoromethane	75-71-8	0.2	0.99
ethanol	64-17-5	2.5	4.71
ethyl acetate	141-78-6	0.5	1.8
ethylbenzene	100-41-4	0.2	0.87
Freon-113	76-13-1	0.2	1.53
Freon-114	76-14-2	0.2	1.4
hexachlorobutadiene	87-68-3	0.2	2.13
hexane	110-54-3	0.2	0.7
isopropyl alcohol	67-63-0	0.5	1.23
methylene chloride	75-09-2	0.5	1.74
MIBK	108-10-1	0.5	2.1
MTBE	1634-04-4	0.2	0.72
m+p-xylene	108-38-3 106-42-3	0.4	1.74
n-heptane	142-82-5	0.2	0.82
o-xylene	95-47-6	0.2	0.87
propylene	115-7-1	0.5	0.85
styrene	100-42-5	0.2	0.85
tetrachloroethene	127-18-4	0.2	1.36
tetrahydrofuran	109-99-9	0.5	1.48
toluene	108-88-3	0.2	0.75
trans-1,2-dichloroethene	156-60-5	0.2	0.79
trans-1,3-dichloropropene	10061-02-6	0.2	0.91
trichloroethene	79-01-6	0.2	1.07
trichlorofluoromethane	75-69-4	0.2	1.12
vinyl acetate	108-05-4	0.5	1.75
vinyl bromide	593-60-2	0.2	0.87
vinyl chloride	75-01-4	0.2	0.51

Table 9B

TO-15 Target Analytes and Reporting Limits
Additional Analytes

COMPOUND	CAS #	Standard Reporting Limit, ppbV	Standard Reporting Limit, ug/m^3
AP-42 Analytes			
acrolein	107-02-8	0.50	1.15
acrylonitrile	107-13-1	0.50	1.08
butane	106-97-8	0.20	0.48
Chlorodifluoromethane	75-45-6	0.20	0.71
Dichlorofluoromethane	75-71-8	0.20	0.84
n-Pentane	109-66-0	0.20	0.59
Propane	74-98-6	0.50	0.90
MADEP MCP 8260 Analytes			
1,1,1,2-tetrachloroethene	630-20-6	0.20	1.37
1,1-dichloropropene	563-58-6	0.20	0.91
1,2,3-trichlorobenzene	87-61-6	0.20	1.48
1,2,3-Trichloropropane	96-18-4	0.20	1.20
1,3-dichloropropane	142-28-9	0.20	0.92
2,2-dichloropropane	594-20-7	0.20	0.92
2-chlorotoluene	95-49-8	0.20	1.03
4-chlorotoluene	106-43-4	0.20	1.03
bromobenzene	108-86-1	0.20	1.28
1,2-dibromo-3-chloropropane	96-12-8	0.20	1.93
dibromomethane	74-95-3	0.20	1.42
diisopropyl ether	108-20-3	0.20	0.84
isopropylbenzene	98-82-8	0.20	0.98
isopropyltoluene	99-87-6	0.20	1.10
naphthalene	91-20-3	0.20	1.05
n-butylbenzene	104-51-8	0.20	1.10
n-propylbenzene	103-65-1	0.20	0.98
sec-butylbenzene	135-98-8	0.20	1.10
tert-amyl methyl ether	994-05-8	0.20	0.84
tert-Butyl ethyl ether	637-92-3	0.20	0.84
tert-butylbenzene	98-06-6	0.20	1.10

COMPOUND	CAS #	Standard Reporting Limit, ppbV	Standard Reporting Limit, ug/m^3
NYDEC Petroleum Indicator Compounds			
nonane	111-84-2	0.20	1.05
octane	111-65-9	0.20	0.93
undecane	1120-21-4	0.20	1.28
decane	124-18-5	0.20	1.16
dodecane	112-40-3	0.20	1.39
indene	95-13-6	0.20	0.95
Indan	496-11-7	0.20	0.97
thiophene	110-02-1	0.20	0.69
2-methylthiophene	554-13-3	0.20	0.80
3-methylthiophene	616-44-4	0.20	0.80
2-ethyl thiophene	872-55-9	0.20	0.92
benzothiophene	934-80-5	0.50	2.74
1,2,3-trimethylbenzene	526-73-8	0.20	0.98
1,2,4,5-tetramethylbenzene	95-93-2	0.20	1.10
2-methylnaphthalene	91-57-6	1.0	5.8
1-methylnaphthalene	90-12-0	1.0	5.8
Project Specific Analytes			
acetaldehyde	75-07-0	2.5	4.51
Acetonitrile	75-05-8	0.20	0.34
butyl acetate	123-86-4	0.50	2.38
ethyl ether	60-29-7	0.20	0.61
methanol	67-56-1	5.0	6.55
tert-butyl alcohol	75-65-0	0.50	1.51
Methyl methacrylate	80-62-6	0.50	2.05
All reporting limits are subject to change.			

Appendix A

Cold Trap Dehydration technique (CTD) for Analysis of Sulfides and Mercaptans by EPA TO-15

Target analytes:

Compound	CAS#	Reporting Limit, ppbV
Hydrogen sulfide	7783-06-4	2.0
Carbonyl sulfide	463-58-1	2.0
Methyl mercaptan	74-93-1	2.0
Ethyl mercaptan	75-08-1	0.5
Dimethyl sulfide	75-18-3	0.5
carbon disulfide	75-15-0	0.5
Isopropyl Mercaptan	75-33-2	0.5
tert-Butyl Mercaptan	75-66-1	0.5
n-Propyl Mercaptan	107-03-9	0.5
Ethyl Methyl Sulfide	624-89-5	0.5

Compound	CAS#	Reporting Limit, ppbV
Thiophene	110-02-1	0.5
Isobutyl Mercaptan	513-44-0	0.5
diethyl sulfide	352-93-2	0.5
Butyl Mercaptan	109-75-5	2.0
dimethyl disulfide	624-92-0	0.5
3-Methylthiophene	616-44-4	0.5
Tetrahydrothiophene	110-01-0	0.5
2-Ethylthiophene	872-55-9	0.5
2,5-Dimethylthiophene	638-02-8	0.5
Diethyl Disulfide	110-81-6	0.5
All reporting limits are subject to change.		

The cold trap dehydration method requires a blank trap (i.e. no trapping material) be installed in module 1 of the Entech 7200 or 7200A concentrator. This trap is cooled and a 250 mL aliquot of sample is allowed to pass through this trap and then directly onto the Tenax trap in module 2, which is also cooled (see Table A-5 for setpoints). The sample is then transferred to module 3 (cryofocusser) via ballistic heating. All requirements stated in this SOP must be applied to any TO15-Sulfide/Mercaptan analysis conducted in the laboratory.

SOP modifications:

Standard preparation and calibration procedures for these analytes are listed in Table A-1 through A-5. Quantitation parameters are listed in Table A-8. Table A-7 lists modified GC conditions.

Section 9.2.5 and 9.5.3.1: Use the Entech method alpha_H2S&SULF.CTD in place of the alpha_TO15.MPT method.

A second source laboratory check standard (LCS) is not readily available for these analytes. An LCS standard is prepared at a different concentration than the initial calibration standards using the same stock standard.

Table A-1

Sulfide/Mercaptan Primary Standard Mix #1

COMPOUND	CAS#	Molecular Weight	Concentration, ppmV
hydrogen sulfide	7783-06-4	34.08	5.0
Carbonyl sulfide	463-58-1	60.08	5.0
Methyl mercaptan	74-93-1	48.11	5.0
ethyl mercaptan	75-08-1	62.14	1.0
dimethyl sulfide	75-18-3	62.14	1.0
carbon disulfide	75-15-0	76.1	1.0
Isopropyl Mercaptan	75-33-2	76.2	1.0
tert-Butyl Mercaptan	75-66-1	90.19	1.0
n-Propyl Mercaptan	107-03-9	76.16	1.0
Ethyl Methyl Sulfide	624-89-5	76.16	1.0
Thiophene	110-02-1	84.1	1.0
Isobutyl Mercaptan	513-44-0	90.19	1.0
diethyl sulfide	352-93-2	90.2	1.0
Butyl Mercaptan	109-79-5	90.19	4.0
3-Methylthiophene	616-44-4	98.17	1.0
Tetrahydrothiophene	110-01-0	88.17	1.0
2-Ethylthiophene	872-55-9	112.19	1.0
2,5-Dimethylthiophene	638-02-8	112.19	1.0

Table A-2

Sulfide/Mercaptan Primary Standard Mix #2

COMPOUND	CAS#	Molecular Weight	Concentration, ppmV
dimethyl disulfide	624-92-0	94.2	1.0

Table A-3

Sulfide/Mercaptan Primary Standard Mix #3

COMPOUND	CAS#	Molecular Weight	Concentration, ppmV
Diethyl Disulfide	110-81-6	122.25	1.0

Table A-4

Summary of Secondary Standards Preparation for Sulfides and Mercaptan Analysis

Primary Standard	Primary Standard Conc. ppmV	Volume of Primary Standard Injected into Tedlar® Bag	Primary Standard Transfer Data	Final Volume Tedlar® Bag (L)	Final Concentration ppbV
Secondary standards prepared using gas-tight syringes					
Tedlar® bag primary standard-Low	1- 5ppmV	20 mL	Syringe Injection	4.0	5.0 / 20.0 / 20
Tedlar® bag primary standard-High	1- 5ppmV	400 mL	Syringe Injection	4.0	100 / 400 / 500
Tedlar® bag primary standard-LCS	1- 5ppmV	40 mL	Syringe Injection	4.0	10 / 40 / 50

Table A-5

Calibration Standard Levels

Calibration Level	Amount (ppbV)	Volume / Secondary Standard
1	0.50	25 mL of 5.0 ppbV sec. standard
2	1.0	50 mL of 5.0 ppbV sec. standard
3	5.0	250 mL of 5.0 ppbV sec. standard
4	10	25 mL of 100 ppbV sec. standard
5	20	50 mL of 100 ppbV sec. standard
6	50	125 mL of 100 ppbV sec. standard
7	80	200 mL of 100 ppbV sec. standard
8	100	250 mL of 100 ppbV sec. standard

Table A-6

ENTECH & 7016D/7200 or 7200A Operating Parameters for CTD Method

Module 1 (Blank Trap)	
Parameter	**Setting**
Trapping Temperature	-20° C
Internal standard volume	100 mL
Internal standard flow rate	60 mL / min
Sample volume (may vary depending on sample concentrations)	250 mL
Sample flow rate	100 mL / min
Preheat Temperature	10° C
Desorb Temperature	10° C
Bake Temperature	220° C
Bake Time	10 min.
Module 2 (Tenax trap)	
Parameter	**Setting**
Trapping Temperature	-70° C
Desorb Temperature	180° C
Bake Temperature	220° C
Module 2 to Module 3 desorb time	3.5 min
Module 3 (Cryofocusser)	
Parameter	**Setting**
Cryofocusing Temperature	-130° C
Desorb Temperature	Approx. 70° C
Module 3 to GC desorb time	2 min
Bake temperature / event	Approx. 90° C / event 3
Delay time	10 min

Table A-7

Internal Standard (IS) Assignments and Quantitation Ions for Sulfides & Mercaptans

Compound	Quant Ion	Sec. Ion(s)
Bromochloromethane (IS)	49	130
Hydrogen sulfide	34	33, 36
Carbonyl sulfide	60	62, 32
Methyl mercaptan	47	48, 45
ethyl mercaptan	62	47, 29
dimethyl sulfide	62	45, 47
carbon disulfide	76	44, 78
Isopropyl Mercaptan	43	41, 76
tert-Butyl Mercaptan	41	57, 90
n-Propyl Mercaptan	76	47, 43
Ethyl Methyl Sulfide	61	76, 48

Compound	Quant Ion	Sec. Ion(s)
1,4-difluorobenzene (IS)	114	63
Thiophene	84	58, 45
Isobutyl Mercaptan	41	56, 90
diethyl sulfide	75	90, 47
Butyl Mercaptan	56	41, 90
dimethyl disulfide	94	79, 45

Compound	Quant Ion	Sec. Ion(s)
Chlorobenzene-D5 (IS)	54	82, 117
3-Methylthiophene	97	98, 45
Tetrahydrothiophene	60	88, 45
2-Ethylthiophene	97	112, 45
2,5-Dimethylthiophene	111	112,97
Diethyl Disulfide	122	66, 94

Appendix B

Data Acquistion Parameters and Analysis Modifications for Conducting SIM Analysis

SIM analysis is conducted when full scan sensitivity does not meet the data quality objectives (DQO) of the project and/or regulatory criteria. The acquisition method used to acquire full scan data simultaneously acquires SIM data using the SIM ions and windows specified in Table B-1. The following modifications to the full scan SOP must be done to generate data using the SIM signal:

- SIM level calibration standards must be analyzed w/ the full scan curve (0.02,0.05, and 0.1 ppbV)
- A calibration curve is generated using the SIM signal utilizing the lower level calibration standards and must meet the same criteria as the full scan calibration criteria.
- The continuing calibration /LCS should be analyzed at a lower concentration (5.0 ppbV). If a separate continuing calibration run is needed, the continuing calibration level of 10 ppbV may be utilized. Laboratory Method Blanks must be evaluated for the SIM reporting limit as listed in Table B-2.

The SIM signal only acquires data for a limited target analyte list. These target analytes and reporting limits are listed in Table B-2. Additional ions have been added to allow for more analytes to be added, if requested by client. All requirements stated in this SOP must be applied to any TO15-SIM analysis conducted in the laboratory.

Table B-1

Calibration Standard Levels for SIM Analysis

Calibration Level	Amount (ppbV)	Volume / Secondary Standard
1	0.02	50 mL of 0.10 ppbV sec. standard
2	0.05	125 mL of 0.1 ppbV sec. standard
3	0.10	250 mL of 0.1 ppbV sec. standard
4	0.20	50 mL of 1.0 ppbV sec. standard
5	0.50	125 mL of 1.0 ppbV sec. standard
6	1.0	250 mL of 1.0 ppbV sec. standard
7	5.0	125 mL of 10 ppbV sec. standard
8	10	250 mL of 10 ppbV sec. standard
9	20	50 mL of 100 ppbV sec. standard
10	50	125 mL of 100 ppbV sec. standard

Table B-2

Seletive Ion Monitoring (SIM) Groupings

Group #	1	2	3	5	6	7	8	9	10	11	12
Group Start Time, min	0	5.9	8.75	10.1	10.9	11.6	13.8	14.6	16.6	18.8	20.5
Dwell time, sec	25	10	25	25	25	15	25	15	3	5	25
Cycles/sec (calc)	2	2.5	3.3	2.1	2.3	1.8	5.7	2.2	7	7	2.3
Analyte Range, Compund #	C2-C7	C8-C20	C21-C26	C27-C29, BCM (IS)	C30-C34	C35-C44, 1,4-DFB (IS)	C45-C46	C47-C55	C56-C67, CHB-D5 (IS)	C68-C76	C77-C80
Ions	29	29 63	43	41	42	39 85	39	39 92	39 106	39	43
	31	31 64	57	43	49	41 87	43	41 94	43 110	43	57
	32	39 66	61	45	51	43 88	58	43 97	45 112	57	63
	39	40 67	63	47	57	45 93	75	45 98	54 114	71	89
	41	41 69	65	49	59	52 95	77	49 100	57 117	75	102
	42	43 72	72	57	62	56 97	100	56 107	75 120	89	109
	43	44 76	73	59	63	57 99		57 109	77 126	91	115
	44	45 84	86	61	64	58 100		58 114	78 128	105	118
	50	47 85	96	70	65	62 110		61 127	82 131	111	128
	51	49 94	98	77	67	63 114		73 129	83 133	115	134
	52	51 96	117	83	71	69 117		75 131	85 156	116	141
	54	52 101	198	85	72	73 119		76 166	91 171	117	142
	58	53 103		86	87	75 129		77	95 173	118	145
	62	55 106		87	97	78 130		83	97 174	119	180
	64	56 108		96	102	82 132		85	103 175	120	225
	67	57 151		97	119	83 174		91	104	126	260
	85	58		98		84			105	134	
	87	59		130						142	
	135	61								146	
										156	
										157	

Table B-3

TO15-SIM Target Analytes and Reporting Limits

COMPOUND	CAS #	SIM Reporting Limit, ppbV	SIM Reporting Limit, ug/m^3
1,1,1-trichloroethane	71-55-6	0.02	0.109
1,1,2,2-tetrachloroethane	79-34-5	0.02	0.137
1,1,2-trichloroethane	79-00-5	0.02	0.109
1,1-dichloroethane	75-34-3	0.02	0.081
1,1-dichloroethene	75-35-5	0.02	0.079
1,2,4-trimethylbenzene	95-63-6	0.02	0.098
1,2-dibromoethane	106-93-4	0.02	0.154
1,2-dichlorobenzene	95-50-1	0.02	0.12
1,2-dichloroethane	107-06-2	0.02	0.081
1,2-dichloropropane	78-87-5	0.02	0.092
1,2-dibromo-3-chloropropane	96-12-8	0.02	0.193
1,3,5-trimethylbenzene	108-67-8	0.02	0.098
1,3-butadiene	106-99-0	0.02	0.044
1,3-dichlorobenzene	541-73-1	0.02	0.12
1,4-dichlorobenzene	106-46-7	0.02	0.12
1,4-dioxane	123-91-1	0.10	0.36
2-hexanone	591-78-6	0.20	0.82
2,2,4-trimethylpentane	540-84-1	0.20	0.93
3-chloropropene	107-05-1	0.20	0.63
4-Ethyltoluene	622-96-8	0.02	0.098
benzene	71-43-2	0.10	0.223
benzyl chloride	100-44-7	0.20	1.03
bromodichloromethane	75-27-4	0.02	0.134
bromoform	75-25-2	0.02	0.207
bromomethane	74-83-9	0.02	0.078
carbon disulfide	75-15-0	0.20	0.62
hexachlorobutadiene	87-68-3	0.05	533
hexane	110-54-3	0.20	0.7
heptane	142-82-5	0.20	0.82
isopropyl alcohol	67-63-0	0.50	1.23
methylene chloride	75-09-2	0.50	1.74
MTBE	1634-04-4	0.02	0.072
m+p-xylene	108-38-3 106-42-3	0.04	0.174
o-xylene	95-47-6	0.02	0.087
propylene	115-7-1	0.50	0.85
styrene	100-42-5	0.02	0.085
tetrachloroethene	127-18-4	0.02	0.136
tetrahydrofuran	109-99-9	0.5	1.48
toluene	108-88-3	0.05	0.188
trans-1,2-dichloroethene	156-60-5	0.02	0.079
trans-1,3-dichloropropene	10061-02-6	0.02	0.091
trichlorofluoromethane	75-69-4	0.05	0.280
trichloroethene	79-01-6	0.02	0.107
1,2,4-trichlorobenzene	120-82-1	0.05	0.371
vinyl acetate	108-05-4	1.00	3.50
vinyl bromide	593-60-2	0.20	0.87
vinyl chloride	75-01-4	0.02	0.051
CT RSR Additional Analytes			
1,1,1,2-tetrachloroethane	630-20-6	0.02	0.137
acrylonitrile	107-13-1	0.50	1.08
isopropyltoluene	99-87-6	0.20	1.1
n-butylbenzene	104-51-8	0.20	1.1

carbon tetrachloride	56-23-5	0.02	0.126
chlorobenzene	108-90-7	0.10	0.460
chloroethane	75-00-3	0.10	0.265
chloroform	67-66-3	0.02	0.098
chloromethane	74-87-3	0.20	0.41
cis-1,2-dichloroethene	156-59-2	0.02	0.079
cis-1,3-dichloropropene	10061-01-5	0.02	0.091
cyclohexane	110-82-7	0.2	0.69
dibromochloromethane	124-48-1	0.02	0.17
dichlorodifluoromethane	75-71-8	0.20	0.99
ethanol	64-17-5	5.0	9.42
ethyl acetate	141-78-6	0.50	1.8
ethylbenzene	100-41-4	0.02	0.087
Freon-113	76-13-1	0.05	0.383
Freon-114	76-14-2	0.05	0.349
sec-butylbenzene	135-98-8	0.20	1.1
tert-butylbenzene	98-06-6	0.20	1.1
isopropylbenzene	98-82-8	0.20	0.98
2-butanone (MEK)	78-93-3	0.50	1.48
Acetone	67-64-1	1.00	2.35
4-methyl-2-pentanone (MIBK)	108-10-1	0.50	2.05
Project & State Specific Analytes			
1,2,3-trichlorobenzene	87-61-6	0.05	0.371
1,2,3-Trichloropropane	96-18-4	0.02	0.12
acrolein	107-02-8	0.05	0.115
bromobenzene	108-86-1	0.20	1.28
Dibromomethane	74-95-3	0.20	1.42
Naphthalene	91-20-3	0.05	0.262
tertiary butyl alcohol	75-65-0	0.50	1.51
All reporting limits are subject to change.			

Appendix C

Modifications to Data Review and Case Narrative to Comply with MADEP MCP TO-15 Method

This addendum addresses modifications to this SOP required to be in compliance with the MADEP MCP TO-15 method, specifically "Quality Control Requirements and Performance Standards for the ***Analysis of Volatile Organic Compounds in Air Samples (TO-15) by Gas Chromatography/Mass Spectrometry (GC/MS)*** in Support of Response Actions under the Massachusetts Contingency Plan (MCP)" Revision No. 0, Section IX B.

1) For duplicate analyses, the 25% RPD criteria stated in Sect. 9.6 of this SOP does not need to be applied to concentrations less than 5X the reporting limit.

2) Samples cannot be analyzed if any of the target analytes if the LCS recovery criteria stated in sect. 9.2 of this SOP is below 70% recovery. For compounds listed as difficult analytes (hexachlorobutadiene, 1,2,4-trichlorobenzene, naphthalene, acetone, and 1,4-dioxane), LCS recovery cannot be less than 50%.

3) Any analyte exceeding %RSD criteria of 30% during initial calibration that is a not listed in the MCP TO-15 method, but may still be reported to the client, must be noted in the case narrative.

Appendix E

Modifications to Data Review and Case Narrative to Comply with 2014 NJDEP Technical Guidance for EPA Method TO-15

This addendum addresses modifications to this SOP required to be in compliance with the NJDEP 2014 Technical Guidance, **"NJDEP Site Remediation Program, Data of Known Quality Protocol, Version 1, April 2014**". This guidance is to be used when analyzing samples via the EPA Method TO-15.

1) Per the Data of Know Quality Protocols Technical Guidance, surrogates are not required to be reported via EPA Method TO-15.

2) A target analyte list and reporting limits are specified in Table E-1, per the Analytical Laboratory Data Generation, Assessment and Usability Technical Guidance.

3) For the analytes ethanol and isopropyl alcohol, results are allowed to be reported outside the calibration range of the instrument, per the Analytical Laboratory Data Generation, Assessment and Usability Technical Guidance. Results reported that exceed the calibration range will be designated with an "E" qualifier.

4) **Laboratory Control Sample (LCS) criteria -** Must contain all target analytes, recovery range is 70-130%. Exceptions for difficult analytes (hexachlorobutadiene, 1,2,4-trichlorobenzene, naphthalene, acetone, dichlorodifluoromethane, and 1,4-dioxane) must exhibit percent recoveries between 40-160%. In addition, the CCAL analysis cannot be reported as the LCS even if it meets LCS requirements. The LCS must be a separate analysis, analyzed after a passing CCAL standard.

5) **Duplicate analyses** - The 25% RPD criteria stated in Sect. 9.6 of this SOP does not need to be applied to concentrations less than 5X the reporting limit.

6) **Tentatively Identified Compounds (TICs)** – up to 15 TICs must be reported, if present. If a reduced target analyte list is requested by client, TICs are not reported.

Table E-1

NJDEP 2014 Target Analytes and Reporting Limits via EPA Method TO-15

Required Compound Name	CAS Number	Molecular Weight	Reporting Limit ppbV	Reporting Limit ug/m³
Acetone	67-64-1	58.08	5.0	12
Allyl chloride	107-05-1	76.53	0.2	0.6
Benzene	71-43-2	78.11	0.2	0.6
Bromodichloromethane	75-27-4	163.8	0.2	1
Bromoform	75-25-2	252.8	0.2	2
Bromomethane	74-83-9	94.94	0.2	0.8
1,3-Butadiene	106-99-0	54.09	0.2	0.4
Chlorobenzene	108-90-7	112.6	0.2	0.9
Chloroethane	75-00-3	64.52	0.5	1
Chloroform	67-66-3	119.4	0.2	1
Chloromethane	74-87-3	50.49	0.5	1
Carbon disulfide	75-15-0	76.14	0.5	2
Carbon tetrachloride	56-23-5	153.8	0.2	1
2-Chlorotoluene	95-49-8	126.6	0.2	1
Cyclohexane	110-82-7	84.16	0.2	0.7
Dibromochloromethane	124-48-1	208.3	0.2	2
1,2-Dibromoethane	106-93-4	187.9	0.2	2
1,2-Dichlorobenzene	95-50-1	147.0	0.2	1
1,3-Dichlorobenzene	541-73-1	147.0	0.2	1
1,4-Dichlorobenzene	106-46-7	147.0	0.2	1
Dichlorodifluoromethane	75-71-8	120.9	0.5	2
1,1-Dichloroethane	75-34-3	98.96	0.2	0.8
1,2-Dichloroethane	107-06-2	98.96	0.2	0.8
1,1-Dichloroethene	75-35-4	96.94	0.2	0.8
1,2-Dichloroethene (cis)	156-59-2	96.94	0.2	0.8
1,2-Dichloroethene (trans)	156-60-5	96.94	0.2	0.8
1,2-Dichloropropane	78-87-5	113.0	0.2	0.9
1,3-Dichloropropene (cis)	10061-01-5	111.0	0.2	0.9
1,3-Dichloropropene (trans)	10061-02-6	111.0	0.2	0.9
1,2-Dichlorotetrafluoroethane	76-14-2	170.9	0.2	1
1,4-Dioxane	123-91-1	88.12	5	18
Ethanol	64-17-5	46.07	5	9
Ethylbenzene	100-41-4	106.2	0.2	0.9
4-Ethyltoluene	622-96-8	120.2	0.2	1
n-Heptane	142-82-5	100.2	0.2	0.8
1,3-Hexachlorobutadiene	87-68-3	260.8	0.2	2
n-Hexane	110-54-3	86.17	0.2	0.7
Isopropanol	67-63-0	60.10	5	12

Table E-1 continued

Required Compound Name	CAS Number	Molecular Weight	Reporting Limit ppbV	Reporting Limit ug/m^3
Methylene chloride	75-09-2	84.94	0.5	2
Methyl ethyl ketone	78-93-3	72.11	0.5	1
Methyl isobutyl ketone	108-10-1	100.2	0.5	2
Methyl methacrylate	80-62-6	100.1	0.5	2
Methyl tert-butyl ether	1634-04-4	88.15	0.2	0.7
Styrene	100-42-5	104.1	0.2	0.9
Tert-butyl alcohol	75-65-0	74.12	5	15
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.2	1
Tetrachloroethene	127-18-4	165.8	0.2	1
Tetrahydrofuran	109-99-9	72.11	5	15
Toluene	108-88-3	92.14	0.2	0.8
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	4
1,1,1-Trichloroethane	71-55-6	133.4	0.2	1
1,1,2-Trichloroethane	79-00-5	133.4	0.2	1
Trichloroethene	79-01-6	131.4	0.2	1
Trichlorofluoromethane	75-69-4	137.4	0.2	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	187.4	0.2	2
1,2,4-Trimethylbenzene	95-63-6	120.2	0.2	1
1,3,5-Trimethylbenzene	108-67-8	120.2	0.2	1
2,2,4-Trimethylpentane	540-84-1	114.2	0.2	0.9
Vinyl bromide	593-60-2	106.9	0.2	0.9
Vinyl chloride	75-01-4	62.50	0.2	0.5
Xylenes (m&p)	179601-23-1	106.2	0.5	2
Xylenes (o)	95-47-6	106.2	0.2	0.9
Naphthalene (reported on request)	91-20-3	128.2	0.2	1

All reporting limits are subject to change.

Appendix F

Modifications to EPA TO-15 SOP to comply with Ohio EPA Voluntary Action Program (VAP) Requirements

This Appendix defines requirements that are necessary to perform TO-15 analysis for any samples submitted via the VAP Program. No deviations from the SOP are allowed under the VAP program.

1) Sec. 3 caveat – reporting limits defined in this SOP are subject to change.

2) Sec. 7 caveat – Equipment and supplies are subject to change.

3) Initial calibration acceptance – %RSD criteria must be as defined in the EPA TO-15 method; only 2 analytes allowed greater than 30% RSD, and must be less than 40%.

4) The Laboratory check standard (LCS) may not be used as the continuing calibration verification (CCV). A CCV and LCS must be analyzed prior to samples.

5) Tentatively Identified Compounds (TICs) may not be reported as certified values.

6) CCV-10% rule not allowed. All analytes reported must be +/- 30% D. (Criteria in sections 10.4.2.6 and 2.1 do not apply to VAP samples.) All analytes in the CCV must be less than 30% RSD for VAP samples (criteria in Section 2.1, 10.4.2.6 and 10.4.2.7 do not apply.)

7) 10% Duplicate criteria not allowed. All duplicate %RPD results must be below 25%.

8) For Ohio projects, only the analytes listed in Table F-1 or as explained in the footnote to Table F-1 will be reported as certified data.

9) Affidavits are required with each report or for a series of reports generated for a particular project.

10) Surrogates are not required and will not be added to Ohio VAP samples.

11) The analysis of a Laboratory Control Sample Duplicate (LCSD) is not required and will not be analyzed for Ohio VAP samples.

12) The LCS is evaluated at +/- 30. Criteria in section 2.1 does not apply to VAP samples.

13) Corrective actions for the method blank are required if it contains analyte concentrations at or above the RL for reportable analytes.

Table F-1

Ohio EPA VAP Program Target Analyte List *		
chloromethane	1,2-dichloropropane	1,1-Dichloropropene
vinyl chloride	1,4-dioxane	1,2,3-Trichloropropane
1,3-butadiene	trichloroethene	1,2,4-Trimethylbenzene
acetaldehyde	2,2,4-trimethylpentane	1,2-Dichlorobenzene
bromomethane	cis-1,3-dichloropropene	1,3,5-Trimethylbenzene
chloroethane	4-methyl-2-pentanone	1,3-Dichlorobenzene
vinyl bromide	1,1,2-trichloroethane	1,3-Dichloropropane
acrolein	toluene	Acetone
acetonitrile	1,2-dibromoethane	Bromodichloromethane
acrylonitrile	tetrachloroethene	Butyl acetate
1,1-dichloroethene	chlorobenzene	cis-1,2-Dichloroethene
methylene chloride	ethylbenzene	Cyclohexane
3-chloropropene	m+p-xylene	Dibromochloromethane
carbon disulfide	bromoform	Dibromomethane
1,1-dichloroethane	styrene	Dichlorodifluoromethane
MTBE	1,1,2,2-tetrachloroethane	Ethyl acetate
vinyl acetate	o-xylene	Ethyl ether
2-butanone	isopropylbenzene	Methyl alcohol (methanol)
chloroform	Benzyl Chloride	Methyl Methacrylate
1,2-dichloroethane	1,4-dichlorobenzene	Naphthalene
hexane	1,2-dibromo-3-chloropropane	Tetrahydrofuran
1,1,1-trichloroethane	1,2,4-trichlorobenzene	trans-1,2-Dichloroethene
benzene	hexachlorobutadiene	trans-1,3-Dichloropropene
carbon tetrachloride	1,1,1,2-Tetrachloroethane	Trichlorofluoromethane

***** The analytes appearing in this table are subject to change, however, any changes will not include identification of compounds that are not included in the TO-15 method referenced at the beginning of this document. However, it is acceptable to analyze and report, as certified data, compound(s) not included in the TO-15 method referenced at the beginning of this document if the compound(s) appear on the current and valid certificate issued by VAP on the date of analysis and if the laboratory has followed all applicable VAP approved documents.

ATTACHMENT 3

Roux's Standard Operating Procedures

Date: May 5, 2000

1.0 PURPOSE

The purpose for this standard operating procedure (SOP) is to establish the guidelines for decontamination of all field equipment potentially exposed to contamination during drilling, and soil and water sampling. The objective of decontamination is to ensure that all drilling, and soil-sampling and water-sampling equipment is decontaminated (free of potential contaminants): 1) prior to being brought onsite to avoid the introduction of potential contaminants to the site; 2) between drilling and sampling events/activities onsite to eliminate the potential for cross-contamination between boreholes and/or wells; and 3) prior to the removal of equipment from the site to prevent the transportation of potentially contaminated equipment offsite.

In considering decontamination procedures, state and federal regulatory agency requirements must be considered because of potential variability between state and federal requirements and because of variability in the requirements of individual states. Decontamination procedures must be in compliance with state and/or federal protocols in order that regulatory agency(ies) scrutiny of the procedures and data collected do not result in non acceptance (invalidation) of the work undertaken and data collected.

2.0 PROCEDURE FOR DRILLING EQUIPMENT

The following is a minimum decontamination procedure for drilling equipment. Drilling equipment decontamination procedures, especially any variation from the method itemized below, will be documented on an appropriate field form or in the field notebook.

2.1 The rig and all associated equipment should be properly decontaminated by the contractor before arriving at the test site.

2.2 The augers, drilling casings, rods, samplers, tools, rig, and any piece of equipment that can come in contact (directly or indirectly) with the soil, will be steam cleaned onsite prior to set up for drilling to ensure proper decontamination.

2.3 The same steam cleaning procedures will be followed between boreholes (at a fixed on-site location[s], if appropriate) and before leaving the site at the end of the study.

2.4 All on-site steam cleaning (decontamination) activities will be monitored and documented by a member(s) of the staff of Roux Associates, Inc.

2.5 If drilling activities are conducted in the presence of thick, sticky oils (e.g., PCBs) which coat drilling equipment, then special decontamination procedures may have to be utilized before steam cleaning (e.g., hexane scrub and wash).

2.6 Containment of decontamination fluids may be necessary (e.g., rinseate from steam cleaning) or will be required (e.g., hexane), and disposal must be in accordance with state and/or federal procedures.

3.0 PROCEDURE FOR SOIL-SAMPLING EQUIPMENT

The following is a minimum decontamination procedure for soil-sampling equipment (e.g., split spoons, stainless-steel spatulas). Soil-sampling equipment decontamination procedures, especially any variation from the method itemized below, will be documented on an appropriate field form or in the field notebook.

3.1 Wear disposable gloves while cleaning equipment to avoid cross-contamination and change gloves as needed.

3.2 Steam clean the sampler or rinse with potable water. If soil-sampling activities are conducted in the presence of thick, sticky oils (e.g., PCBs) which coat sampling equipment, then special decontamination procedures may have to be utilized before steam cleaning and washing in detergent solution (e.g., hexane scrub and wash).

3.3 Prepare a non-phosphate, laboratory-grade detergent solution and distilled or potable water in a clean bucket.

3.4 Disassemble the sampler, as necessary and immerse all parts and other sampling equipment in the solution.

3.5 Scrub all equipment in the bucket with a brush to remove any adhering particles.

3.6 Rinse all equipment with copious amounts of potable water followed by distilled or deionized water.

3.7 Place clean equipment on a clean plastic sheet (e.g., polyethylene)

3.8 Reassemble the cleaned sampler, as necessary.

3.9 Transfer the sampler to the driller (or helper) making sure that this individual is also wearing clean gloves, or wrap the equipment with a suitable material (e.g., plastic bag, aluminum foil.

As part of the decontamination procedure for soil-sampling equipment, state and/or federal protocols must be considered. These may require procedures above those specified as minimum for Roux Associates, Inc., such as the use of nitric acid, acetone, etc. Furthermore, the containment and proper disposal of decontamination fluids must be considered with respect to regulatory agency(ies) requirements.

4.0 PROCEDURE FOR WATER-SAMPLING EQUIPMENT

The following is a decontamination procedure for water-sampling equipment (e.g., bailers, pumps). Water-sampling equipment decontamination procedures, especially any variation from the method itemized below, will be documented on an appropriate field form or in the field notebook.

4.1 Decontamination procedures for bailers follow:

a. Wear disposable gloves while cleaning bailer to avoid cross-contamination and change gloves as needed.

b. Prepare a non-phosphate, laboratory-grade detergent solution and potable water in a bucket.

c. Disassemble bailer (if applicable) and discard cord in an appropriate manner, and scrub each part of the bailer with a brush and solution.

d. Rinse with potable water and reassemble bailer.

e. Rinse with copious amounts of distilled or deionized water.

f. Air dry.

g. Wrap equipment with a suitable material (e.g., clean plastic bag, aluminum foil).

h. Rinse bailer at least three times with distilled or deionized water before use.

4.2 Decontamination procedures for pumps follow:

a. Wear disposable gloves while cleaning pump to avoid cross-contamination and change gloves as needed.

b. Prepare a non-phosphate, laboratory-grade detergent solution and potable water in a clean bucket, clean garbage can, or clean 55-gallon drum.

c. Flush the pump and discharge hose (if not disposable) with the detergent solution, and discard disposable tubing and/or cord in an appropriate manner.

d. Flush the pump and discharge hose (if not disposable) with potable water.

e. Place the pump on clear plastic sheeting.

f. Wipe any pump-related equipment (e.g., electrical lines, cables, discharge hose) that entered the well with a clean cloth and detergent solution, and rinse or wipe with a clean cloth and potable water.

g. Air dry.

h. Wrap equipment with a suitable material (e.g., clean plastic bag).

As part of the decontamination procedure for water-sampling equipment, state and/or federal protocols must be considered. These may require procedures above those specified as minimum for Roux Associates, Inc., such as the use of nitric acid, acetone, etc. Furthermore, the containment and proper disposal of decontamination fluids must be considered with respect to regulatory agency(ies) requirements.

Date: May 5, 2000

1.0 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to establish guidelines for the collection of soil samples for laboratory analysis. This SOP is applicable to soil samples collected from split-spoon samplers during drilling, hand auger samples, grab samples from stockpiled soils, surface samples, test pit samples, etc.

2.0 CONSIDERATIONS

Soil samples may be collected in either a random or biased manner. Random samples can be based on a grid system or statistical methodology. Biased samples can be collected in areas of visible impact or suspected source areas. Soil samples can be collected at the surface, shallow subsurface, or at depth. When samples are collected at depth the water content should be noted, since generally "soil sampling" is restricted to the unsaturated zone. Equipment selection will be determined by the depth of the sample to be collected. A thorough description of the sampling locations and proposed methods of sample collection should be included in the work plan.

Commonly, surface sampling refers to the collection of samples at a 0 to 6 inch depth interval. Certain regulatory agencies may define the depth interval of a surface sample differently, and this must be defined in the work plan. Collection of surface soil samples is most efficiently accomplished with the use of a stainless steel trowel or scoop. For samples at greater depths a decontaminated bucket auger or power auger may be needed to advance the hole to the point of sample collection. Another clean bucket auger should then be used to collect the sample. To collect samples at depths of greater than approximately six feet the use of a drill rig and split spoon samples will usually be necessary. In some situations, sample locations are accessed with the use of a backhoe.

3.0 MATERIALS/EQUIPMENT

a. A work plan which outlines soil sampling requirements.

b. Field notebook, field form(s), maps, chain-of-custody forms, and custody seals.

c. Decontamination supplies (including: non-phosphate, laboratory grade detergent, buckets, brushes, potable water, distilled water, regulatory-required reagents, aluminum foil, plastic sheeting, etc.).

d. Sampling device (split-spoon sampler, stainless steel hand auger, stainless steel trowel, etc.).

e. Stainless steel spoons or spatulas.

f. Disposable sampling gloves.

g. Laboratory-supplied sample containers with labels.

h. Cooler with blue or wet ice.

i. Plastic sheeting.

j. Black pen and indelible marker.

k. Zip-lock bags and packing material.

l. Tape measure.

m. Paper towels or clean rags.

n. Masking and packing tape.

o. Overnight (express) mail forms.

4.0 DECONTAMINATION

All reusable sampling equipment will be thoroughly cleaned according to the decontamination SOP. Where possible, thoroughly pre-cleaned and wrapped sampling equipment should be used and dedicated to individual sampling locations. Disposable items such as sampling gloves, aluminum foil, and plastic sheeting will be changed after each use and discarded in an appropriate manner.

5.0 PROCEDURE

5.1 Prior to collecting soil samples, ensure that all sampling equipment has been thoroughly cleaned according to the decontamination SOP. If samples are to be collected at depth, then the boring must be advanced with thoroughly cleaned equipment to the desired sampling horizon and a different thoroughly cleaned sampler must be used to collect the sample.

5.2 Using disposable gloves and a pre-cleaned, stainless steel spatula or spoon, extract the soil sample from the sampler, measure the recovery, and separate the wash from the true sample. Where allowed by regulatory agency(ies), disposable plastic spoons may be used.

5.3 Place the sample in a laboratory-supplied, pre-cleaned sample container. This should be done as quickly as possible and this is especially important when sampling for volatile organic compounds (VOCs). Samples to be analyzed for VOCs must be collected prior to other constituents.

5.4 The sample container will be labeled with appropriate information such as, client name, site location, sample identification (location, depth, etc.), date and time of collection, and sampler's initials.

5.5 Using the remaining portion of soil from the sampler, log the sample in detail and record sediment characteristics (color, odor, moisture, texture, density, consistency, organic content, layering, grain size, etc.).

5.6 If soil samples are to be composited in the field, then equal portions from selected locations will be placed on a clean plastic sheet and homogenized. Alternately, several samples may be submitted to the laboratory for compositing by weight. The method used is dependent upon regulatory requirements. Specific compositing procedures shall be approved by the appropriate regulatory agency and described in the work plan. Samples to be analyzed for VOCs will not be composited unless required by a regulatory agency.

5.7 After the sample has been collected, labeled, and logged in detail, it is placed in a zip-lock bag and stored in a cooler at 4°C.

5.8 A chain-of-custody form is completed for all samples collected. One copy is retained and two are sent with the samples in a zip-lock bag to the laboratory. A custody seal is placed on the cooler prior to shipment.

5.9 Samples collected from Monday to Friday are to be delivered to the laboratory within 24 hours of collection. If Saturday delivery is unavailable, samples collected on Friday must be delivered by Monday morning. Check the work plan to determine if any analytes require a shorter delivery time.

5.10 The field notebook and appropriate forms should include, but not be limited to the following: client name, site location, sample location, sample depth, sample identification, date and time collected, sampler's name, method of sample collection, number and type of containers, geologic description of material, description of decontamination procedures, etc. A site map should be prepared with exact measurements to each sample location in case follow-up sampling is necessary.

5.11 All reusable sampling equipment must be thoroughly cleaned in accordance with the decontamination SOP. Following the final decontamination (after all samples are collected) the sampling equipment is wrapped in aluminum foil. Discard any gloves, foil, plastic, etc. in an appropriate manner that is consistent with site conditions.

END OF PROCEDURE

Date: May 5, 2000

1.0 PURPOSE

The purpose of this standard operating procedure (SOP) is to establish guidelines for sample handling which will allow consistent and accurate results. Valid chemistry data are integral to investigations that characterize media-quality conditions. Thus, this SOP is designed to ensure that once samples are collected, they are preserved, packed and delivered in a manner which will maintain sample integrity to as great an extent as possible. The procedures outlined are applicable to most sampling events and any required modifications must be clearly described in the work plan.

2.0 CONSIDERATIONS

Sample containers, sampling equipment decontamination, quality assurance/quality control (QA/QC), sample preservation, and sample handling are all components of this SOP.

2.1 Sample Containers

Prior to collection of a sample, considerations must be given to the type of container that will be used to store and transport the sample. The type and number of containers selected is usually based on factors such as sample matrix, potential contaminants to be encountered, analytical methods requested, and the laboratory's internal quality assurance requirements. In most cases, the overriding considerations will be the analytical methodology, or the state or federal regulatory requirements because these regulations generally encompass the other factors. The sample container selected is usually based on some combination of the following criteria:

a. Reactivity of Container Material with Sample

Choosing the proper composition of sample containers will help to ensure that the chemical and physical integrity of the sample is maintained. For sampling potentially hazardous material, glass is the recommended container type because it is chemically inert to most substances. Plastic containers are not recommended for most hazardous wastes because the potential exists for contaminants to adsorb to the surface of the plastic or for the plasticizer to leach into the sample.

In some instances, however, the sample characteristics or analytes of interest may dictate that plastic containers be used instead of glass. Because some metals species will adhere to the sides of the glass containers in an aqueous matrix, plastic bottles (e.g., nalgene) must be used for samples collected for metals analysis. A separate, plastic container should accompany glass containers if metals analysis is to be

performed along with other analyses. Likewise, other sample characteristics may dictate that glass cannot be used. For example, in the case of a strong alkali waste or hydrofluoric solution, plastic containers may be more suitable because glass containers may be etched by these compounds and create adsorptive sites on the container's surface.

b. Volume of the Container

The volume of sample to be collected will be dictated by the analysis being performed and the sample matrix. The laboratory must supply bottles of sufficient volume to perform the required analysis. In most cases, the methodology dictates the volume of sample material required to complete the analysis. However, individual laboratories may provide larger volume containers for various analytes to ensure sufficient quantities for duplicates or other QC checks.

To facilitate transfer of the sample from the sampler into the container and to minimize spillage and sample disturbance, wide-mouth containers are recommended. Aqueous volatile organic samples must be placed into 40-milliliter (ml) glass vials with polytetrafluoroethylene (PTFE) (e.g., TeflonTM) septums. Non-aqueous volatile organic samples should be collected in the same type of vials or in 4-ounce (oz) wide-mouth jars provided by the laboratory. These jars should have PTFE-lined screw caps.

c. Color of Container

Whenever possible, amber glass containers should be used to prevent photodegradation of the sample, except when samples are being collected for metals analysis. If amber containers are not available, then containers holding samples should be protected from light (i.e., place in cooler with ice immediately after filling).

d. Container Closures

Container closures must screw on and off the containers and form a leak-proof seal. Container caps must not be removed until the container is ready to be filled with the sample, and the container cap must be replaced (securely) immediately after filling it. Closures should be constructed of a material which is inert with respect to the sampled material, such as PTFE (e.g., TeflonTM). Alternately, the closure may be separated from the sample by a closure liner that is inert to the sample material such as PTFE sheeting. If soil or sediment samples are being collected, the threads of the container must be wiped clean with a dedicated paper towel or cloth so the cap can be threaded properly.

e. Decontamination of Sample Containers

Sample containers must be laboratory cleaned by the laboratory performing the analysis. The cleaning procedure is dictated by the specific analysis to be performed on the sample. Sample containers must be carefully examined to ensure that all containers appear clean. Do not mistake the preservative as unwanted residue. The bottles should not be field cleaned. If there is any question regarding the integrity of the bottle, then the laboratory must be contacted immediately and the bottle(s) replaced.

f. Sample Bottle Storage and Transport

No matter where the sample bottles are, whether at the laboratory waiting to be packed for shipment or in the field waiting to be filled with sample, care must be taken to avoid contamination. Sample shuttles or coolers, and sample bottles must be stored and transported in clean environments. Sample bottles and clean sampling equipment must never be stored near solvents, gasoline, or other equipment that is a potential source of cross-contamination. When under chain of custody, sample bottles must be secured in locked vehicles, and custody sealed in shuttles or in the presence of authorized personnel. Information which documents that proper storage and transport procedures have been followed must be included in the field notebook and on appropriate field forms.

2.2 Decontamination of Sampling Equipment

Proper decontamination of all re-usable sampling equipment is critical for all sampling episodes. The SOP for Decontamination of Field Equipment and SOPs for method-specific or instrument-specific tasks must also be referred to for guidance for decontamination of various types of equipment.

2.3 Quality Assurance/Quality Control Samples

QA/QC samples are intended to provide control over the proper collection and tracking of environmental measurements, and subsequent review, interpretation and validation of generated analytical data. The SOPs for Collection of Quality Control Samples, for Evaluation and Validation of Data, and for Field Record Keeping and Quality Assurance/Quality Control must be referred to for detailed guidance regarding these respective procedures. SOPs for method-specific or instrument-specific tasks must also be referred to for guidance for QA/QC procedures.

2.4 Sample Preservation Requirements

Certain analytical methodologies for specific analytes require chemical additives in order to stabilize and maintain sample integrity. Generally, this is accomplished under the following two scenarios:

a. Sample bottles are preserved at the laboratory prior to shipment into the field.

b. Preservatives are added in the field immediately after the samples are collected.

Many laboratories provide pre-preserved bottles as a matter of convenience and to help ensure that samples will be preserved immediately upon collection. A problem associated with this method arises if not enough sample could be collected, resulting in too much preservative in the sample. More commonly encountered problems with this method include the possibility of insufficient preservative provided to achieve the desired pH level or the need for additional preservation due to chemical reactions caused by the addition of sample liquids to pre-preserved bottles. The use of pre-preserved bottles is acceptable; however, field sampling teams must always be prepared to add additional preservatives to samples if the aforementioned situations occur. Furthermore, care must be exercised not to overfill sample bottles containing preservatives to prevent the sample and preservative from spilling and therefore diluting the preservative (i.e., not having enough preservative for the volume of sample).

When samples are preserved after collection, special care must be taken. The transportation and handling of concentrated acids in the field requires additional preparation and adherence to appropriate preservation procedures. All preservation acids used in the field should be trace-metal or higher-grade.

2.5 Sample Handling

After the proper sample bottles have been received under chain-of-custody, properly decontaminated equipment has been used to collect the sample, and appropriate preservatives have been added to maintain sample integrity, the final step for the field personnel is checking the sample bottles prior to proper packing and delivery of the samples to the laboratory.

All samples should be organized and the labels checked for accuracy. The caps should be checked for tightness and any 40-ml volatile organic compound (VOC) bottles must be checked for bubbles. Each sample bottle must be placed in an individual "zip-lock" bag to protect the label, and placed on ice. The bottles must be carefully packed to prevent breakage during transport. When several bottles have been collected for an individual sample, they should not be placed adjacent to each other in the cooler to prevent possible breakage of all bottles for a given sample. If there are any samples which are known or suspected to be highly contaminated, these should be placed in an individual cooler under separate chain-of-custody to prevent possible cross contamination. Sufficient ice (wet or blue packs) should be placed in the cooler to maintain the temperature at 4 degrees Celsius (°C) until delivery at the laboratory. Consult the work plan to determine if a particular ice is specified as the preservation for transportation (e.g., the United States Environmental Protection Agency does not like the use of

blue packs because they claim that the samples will not hold at 4°C). Blue ice packs will not be used to transport samples being analyzed for Per- and Polyfluoroalkyl Substances (PFAS). If additional coolers are required, then they should be purchased. The chain-of-custody form should be properly completed, placed in a "zip-lock" bag, and placed in the cooler. One copy must be maintained for the project files. The cooler should be sealed with packing tape and a custody seal. The custody seal number should be noted in the field book. Samples collected from Monday through Friday will be delivered to the laboratory within 24 hours of collection. If Saturday delivery is not available, samples collected on Friday must be delivered by Monday morning. Check the work plan to determine if certain analytes require a shorter delivery time. If overnight mail is utilized, then the shipping bill must be maintained for the files and the laboratory must be called the following day to confirm receipt.

3.0 EQUIPMENT AND MATERIALS

3.1 General equipment and materials may include, but not necessarily be limited to, the following:

a. Sample bottles of proper size and type with labels.

b. Cooler with ice (wet or blue pack; no blue packs for PFAS samples).

c. Field notebook, appropriate field form(s), chain-of-custody form(s), custody seals.

d. Black pen and indelible marker.

e. Packing tape, "bubble wrap," and "zip-lock" bags.

f. Overnight (express) mail forms and laboratory address.

g. Health and safety plan (HASP).

h. Work plan/scope of work.

i. Pertinent SOPs for specified tasks and their respective equipment and materials.

3.2 Preservatives for specific samples/analytes as specified by the laboratory. Preservatives must be stored in secure, spillproof glass containers with their content, concentration, and date of preparation and expiration clearly labeled.

3.3 Miscellaneous equipment and materials including, but not necessarily limited to, the following:

a. Graduated pipettes.

b. Pipette bulbs.

c. Litmus paper.

d. Glass stirring rods.

e. Protective goggles.

f. Disposable gloves.

g. Lab apron.

h. First aid kit.

i. Portable eye wash station.

j. Water supply for immediate flushing of spillage, if appropriate.

k. Shovel and container for immediate containerization of spillage-impacted soils, if appropriate.

4.0 PROCEDURE

4.1 Examine all bottles and verify that they are clean and of the proper type, number, and volume for the sampling to be conducted.

4.2 Label bottles carefully and clearly with project name and number, site location, sample identification, date, time, and the sampler's initials using an indelible marker.

4.3 Collect samples in the proper manner (refer to specific sampling SOPs).

4.4 Conduct preservation activities as required after each sample has been collected. Field preservation must be done immediately and must not be done later than 30 minutes after sample collection.

4.5 Conduct QC sampling, as required.

4.6 Seal each container carefully and place in an individual "zip lock" bag.

4.7 Organize and carefully pack all samples in the cooler immediately after collection (e.g., bubble wrap). Insulate samples so that breakage will not occur.

4.8 Complete and place the chain-of-custody form in the cooler after all samples have been collected. Maintain one copy for the project file. If the cooler is to be transferred several times prior to shipment or delivery to the laboratory, it may be easier to tape the chain-of-custody to the exterior of the sealed cooler. When exceptionally hazardous samples are known or suspected to be present, this should be identified on the chain-of-custody as a courtesy to the laboratory personnel.

4.9 Add additional ice as necessary to ensure that it will last until receipt by the laboratory.

4.10 Seal the cooler with packing tape and a custody seal. Record the number of the custody seal in the field notebook and on the field form. If there are any exceptionally hazardous samples, then shipping regulations should be examined to ensure that the sample containers and coolers are in compliance and properly labeled.

4.11 Samples collected from Monday through Friday will be delivered to the laboratory within 24 hours of collection. If Saturday delivery is not available, samples collected on Friday must be delivered by Monday morning. Check the work plan to determine if certain analytes require a shorter delivery time.

4.12 Maintain the shipping bill for the project files if overnight mail is utilized and call the laboratory the following day to confirm receipt.

END OF PROCEDURE

Date: May 5, 2000

1.0 PURPOSE

The purpose of this standard operating procedure (SOP) is to establish guidelines for the sampling of ground-water monitoring wells for dissolved constituents. As part of the SOP for the sampling of ground-water monitoring wells, sample collection equipment and devices must be considered, and equipment decontamination and pre-sampling procedures (e.g., measuring water levels, sounding wells, and purging wells) must be implemented. Sampling objectives must be firmly established in the work plan before considering the above.

Valid water-chemistry data are integral to a hydrogeologic investigation that characterizes ground-water quality conditions. Water-quality data are used to evaluate both current and historic aquifer chemistry conditions, as well as to estimate future conditions (e.g., trends, migration pathways). Water-quality data can be used to construct ground-water quality maps to illustrate chemical conditions within the flow system, to generate water-quality plots to depict conditions with time and trends, and to perform statistical analyses to quantify data variability, trends, and cleanup levels.

2.0 EQUIPMENT AND MATERIALS

2.1 In order to sample ground water from monitoring wells, specific equipment and materials are required. The equipment and materials list may include, but not necessarily be limited to, the following:

a. Bailers (Teflon™ or stainless steel).

b. Pumps (centrifugal, peristaltic, bladder, electric submersible, bilge, hand-operated diaphragm, etc.).

c. Gas-displacement device(s).

d. Air-lift device(s).

e. Teflon™ tape, electrical tape.

f. Appropriate discharge hose.

g. Appropriate discharge tubing (e.g., polypropylene, teflon, etc.) if using a peristaltic pump.

h. Appropriate compressed gas if using bladder-type or gas-displacement device.

i. Portable generator and gasoline or alternate power supply if using an electric submersible pump.

j. Non-absorbent cord (e.g., polypropylene, etc.).

k. Plastic sheeting.

l. Tape measure (stainless steel, steel, fiberglass) with 0.01-foot measurement increments and chalk (blue carpenter's).

m. Electronic water-level indicators (e.g., m-scope, etc.) or electric water-level/product level indicators.

n. Non-phosphate, laboratory-grade detergent.

o. Distilled/Deionized water.

p. Potable water.

q. Paper towels, clean rags.

r. Roux Associates' field forms (e.g., daily log, well inspection checklist, sampling, etc.) and field notebook.

s. Well location and site map.

t. Well keys.

u. Stop watch, digital watch with second increments, or watch with a second hand.

v. Water Well Handbook.

w. Calculator.

x. Black pen and water-proof marker.

y. Tools (e.g., pipe wrenches, screwdrivers, hammer, pliers, flashlight, pen knife, etc.).

z. Appropriate health and safety equipment, as specified in the site health and safety plan (HASP).

aa. pH meter(s) and buffers.

bb. Conductivity meter(s) and standards.

cc. Thermometer(s).

dd. Extra batteries (meters, thermometers, flashlight).

ee. Filtration apparatus, filters, pre-filters.

ff. Plasticware (e.g., premeasured buckets, beakers, flasks, funnels).

gg. Disposable gloves.

hh. Water jugs.

ii. Laboratory-supplied sample containers with labels.

jj. Cooler(s).

kk. Ice (wet, blue packs).

ll. Masking, duct, and packing tape.

mm. Chain-of-custody form(s) and custody seal(s).

nn. Site sampling and analysis plan (SAP).

oo. Site health and safety plan (HASP).

pp. Packing material (e.g., bubble wrap)

qq. "Zip-lock" plastic bags.

rr. Overnight (express) mail forms.

3.0 DECONTAMINATION

3.1 Make sure all equipment is decontaminated and cleaned before use (refer to the SOP for Decontamination of Field Equipment for detailed decontamination methods, summaries for bailers and pumps are provided below). Use new, clean materials when decontamination is not appropriate (e.g., non-absorbent cord, disposable gloves). Document, and initial and date the decontamination procedures on the appropriate field form and in the field notebook.

a. Decontaminate a bailer by: 1) wearing disposable gloves, 2) disassembling (if appropriate) and scrubbing in a non-phosphate, laboratory-grade detergent and distilled/deionized water solution, and 3) rinsing first with potable water and then distilled/deionized water.

b. Decontaminate a pump by: 1) wearing disposable gloves, 2) flushing the pump and discharge hose (if not disposable) first with a non-phosphate, laboratory-grade detergent and potable water solution in an appropriate container (clean bucket, garbage can, or 55-gallon drum) and then with

distilled/deionized water or potable water, and 3) wiping pump-related equipment (e.g., electrical lines, cables, discharge hose) first with a clean cloth and detergent solution and then rinsing or wiping with a clean cloth and distilled/deionized water or potable water.

3.2 Note that the decontamination procedures for bailers and pumps are the minimum that must be performed. Check the work plan to determine if chemicals specified by individual state regulatory agencies must also be used for decontamination procedures (e.g., hexane, nitric acid, acetone, isopropanol, etc.).

4.0 CALIBRATION OF FIELD ANALYSIS EQUIPMENT

Calibrate field analysis equipment before use (e.g., thermometers, pH and conductivity meters, etc.). Refer to the specific SOP for field analysis for each respective piece of equipment. Document, and initial and date the calibration procedures on the appropriate field form, in the field notebook, and in the calibration log book.

5.0 PROCEDURE

5.1 Document, and initial and date well identification, pre-sampling information, and problems encountered on the appropriate field form and in the field notebook as needed.

5.2 Inspect the protective casing of the well and the well casing, and note any items of concern such as a missing lock, or bent or damaged casing(s).

5.3 Place plastic sheeting around the well to protect sampling equipment from potential cross contamination.

5.4 Remove the well cap or plug and, if necessary, clean the top of the well off with a clean rag. Place the cap or plug on the plastic sheeting. If the well is not vented, allow several minutes for the water level in the well to equilibrate. If fumes or gases are present, then diagnose these with the proper safety equipment. Never inhale the vapors.

5.5 Measure the depth to water (DTW) from the measuring point (MP) on the well using a steel tape and chalk or an electronic sounding device (m-scope). Refer to the specific SOPs for details regarding the use of a steel tape or a m-scope for measuring water levels. Calculate the water-level elevation. Document, and initial and date the information on the appropriate field form and in the field notebook.

5.6 Measuring the total depth of the well from the MP with a weighted steel tape. Calculate and record the volume of standing water in the well casing on the appropriate field form and in the field notebook.

5.7 Decontaminate the equipment used to measure the water level and sound the well with a non-phosphate, laboratory-grade detergent solution followed by a distilled/deionized water rinse.

5.8 Purge the well prior to sampling (refer to the SOP for Purging a Well). The well should be pumped or bailed to remove the volume of water specified in the work plan. Usually three to five casing volumes are removed if the recharge rate is adequate to accomplish this within a reasonable amount of time.

If the formation cannot produce enough water to sustain purging, then one of two options must be followed. These include: 1) pumping or bailing the well dry, or 2) pumping or bailing the well to "near-dry" conditions (i.e., leaving some water in the well). The option employed must be specified in the work plan and be in accordance with regulatory requirements.

If the well is purged dry, then all the standing water has been removed and upon recovery the well is ready for sampling. However, depending on the rate of recovery and the time needed to complete the sampling round, one of the following procedures may have to be implemented: 1) the well may have to be sampled over a period of more than one day; 2) the well may not yield enough water to collect a complete suite of samples and only select (most important) samples will be collected; or 3) the well may not recover which will preclude sampling. Regardless of the option that must be followed, the sampling procedure must be fully documented. When preparing to conduct a sampling round, review drilling, development and previous sampling information (if available) to identify low-yielding wells in order to purge them first, and potentially allow time for the well to recover for sampling.

5.9 Record the physical appearance of the water (i.e., color, turbidity, odor, etc.) on the appropriate field form and in the field notebook, as it is purged. Note any changes that occur during purging.

5.10 If a bailer is used to collect the sample, then:

a. Flush the decontaminated bailer three times with distilled/deionized water.

b. Tie the non-absorbent cord (polypropylene) to the bailer with a secure knot and then tie the free end of the bailer cord to the protective casing or, if possible, some nearby structure to prevent losing the bailer and cord down the well.

c. Lower the bailer slowly down the well and into the water column to minimize disturbance of the water surface. If a bottom-filling bailer is used, then do not submerge the top of the bailer; however, if a top-filling bailer is used, then submerge the bailer several feet below the water surface.

d. Remove and properly discard one bailer volume from the well to rinse the bailer with well water before sampling. Again, lower the bailer slowly down the well to the appropriate depth depending on the bailer type (as discussed above in 5.11 c). When removing the bailer from the well, do not allow the bailer cord to rest on the ground but coil it on the protective plastic sheeting placed around the well. Certain regulatory agencies require that the first bailer volume collected be utilized for the samples.

5.11 If a pump is used to collect the sample, then use the same pump used to purge the well and, if need be, reduce the discharge rate to facilitate filling sample containers and to avoid problems that can occur while filling sample containers (as listed in Number 5.14, below). Alternately, the purge pump may be removed and a thoroughly decontaminated bailer can be used to collect the sample.

5.12 Remove each appropriate container's cap only when ready to fill each with the water sample, and then replace and secure the cap immediately.

5.13 Fill each appropriate, pre-labeled sample container carefully and cautiously to prevent: 1) agitating or creating turbulence; 2) breaking the container; 3) entry of, or contact with, any other medium; and 4) spilling/splashing the sample and exposing the sampling team to contaminated water. Immediately place the filled sample container in a ice-filled (wet ice or blue pack) cooler for storage. If wet ice is used it is recommended that it be repackaged in zip-lock bags to help keep the cooler dry and the sample labels secure. Check the work plan as to whether wet ice or blue packs are specified for cooling the samples because certain regulatory agencies may specify the use of one and not the other.

5.14 "Top-off" containers for volatile organic compounds (VOCs) and tightly seal with Teflon™-lined septums held in place by open-top screw caps to prevent volatilization. Ensure that there are no bubbles by turning the container upside down and tapping it gently.

5.15 Filter water samples (Procedure 4.6) collected for dissolved metals analysis prior to preservation to remove the suspended sediment from the sample. If water samples are to be collected for total metals analysis, then collect a second set of samples without field filtering.

In the event that the regulatory agency(ies) want unfiltered samples for metals analysis, a second set of filtered samples should also be collected. Because unfiltered samples are indications of total metals (dissolved and suspended) they are not representative of aquifer conditions because ground water does not transport sediment (except in some rare cases). Thus, the results for dissolved metals in ground water should be based on filtered samples even if both filtered and unfiltered sets are presented in a report.

5.16 Add any necessary preservative(s) to the appropriate container(s) prior to, or after (preferred), the collection of the sample, unless the appropriate preservative(s) have already been added by the laboratory before shipment.

5.17 Collect quality control (QC) samples as required in the work plan to monitor sampling and laboratory performance. Refer to the SOP for Collection of Quality Control Samples.

5.18 Conduct field analyses after sample collection is complete by measuring and recording the temperature, conductivity, pH, etc. (as called for in the work plan). Note and record the "final" physical appearance of the water (after purging and sampling) on an appropriate field form and in the field notebook.

5.19 Wipe the well cap with a clean rag, replace the well cap and protective cover (if present). Lock the protective cover.

5.20 Verify that each sample is placed in an individual "zip-lock" bag, wrapped with "bubble wrap," placed in the cooler, and that the cooler has sufficient ice (wet ice or blue packs) to preserve the samples for transportation to the analytical laboratory.

5.21 Decontaminate bailers, hoses, and pumps as discussed in the decontamination SOP. Wrap decontaminated equipment with a suitable material (e.g., clean plastic bag or aluminum foil). Discard cords, rags, gloves, etc. in a manner consistent with site conditions.

5.22 Complete all necessary field forms, field notebook entries, and the chain-of-custody forms. Retain one copy of each chain-of-custody form. Secure the cooler with sufficient packing tape and a custody seal.

5.23 Samples collected from Monday through Friday will be delivered within 24 hours of collection. If Saturday delivery is not available, samples collected on Friday must be delivered by Monday morning. Consult the work plan to determine if any of the analytes require a shorter delivery time.

END OF PROCUDURE

1.0 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to establish guidance to obtain accurate and consistent samples of soil gas.

2.0 MATERIALS/EQUIPMENT

- Teflon or Nylaflow tubing, one-quarter or one-eighth inch diameter sample tubing.
- Swagelok® ¼-inch nut and ferrule sets for connecting the probe tubing to the sampling manifold, as appropriate for the collection method
- Helium leak check equipment, as dictated by Site-specific data quality objectives (DQOs), including the enclosure, helium cylinder (high purity helium), and helium detector (Dialectric MGD is preferred). The enclosure and helium detector may be provided by the driller.
- Air pump for purging and electric supply for the pump (either battery, generator, or power inverter with adapter for car battery). Must be capable of a flow of 200 milliliters per minute (mL/min) and a vacuum of 20” Hg.
- Canister, tedlar bag or syringe, as appropriate for the collection method.

3.0 DECONTAMINATION

All reusable sampling equipment will be thoroughly cleaned according to the decontamination SOP. Where possible, thoroughly pre-cleaned and wrapped sampling equipment should be used and dedicated to individual sampling locations. Disposable items such as sampling gloves and plastic sheeting will be changed after each use and discarded in an appropriate manner.

4.0. SITE-SPECIFIC CONSIDERATIONS

Prior to attempting soil gas sampling there should be an understanding of subsurface conditions at the Site. Soil gas samples should be collected in the vadose zone and generally, soil gas samples should not be collected at a depth less than above 5 feet below ground surface (bgs), unless sub-slab soil gas samples are needed. It may also not be feasible to collect soil gas from tighter grain soils with little pore volume, such as clays, and these layers should be avoided.

Soil gas sampling should not be performed until 24-hours after a significant rain event (>1/2 inch of rainfall).

5.0 PROCEDURE

5.1 System Set-up

1. Acquire all the necessary hardware and sampling equipment. Be sure to use one-quarter or one-eighth inch diameter Teflon or Nylaflow sample tubing.

2. Assemble or obtain the necessary fittings and vacuum gauge to create a soil gas probe and sampling manifold (vacuum gauge and valving). This manifold must be clean, free of oils, and flushed free of VOCs prior to use. If appropriate, be sure to place the helium leak check enclosure over the probe, and push the sample tubing through the hole in the cap before attaching the sampling manifold.

3. Adjust the purge system evacuation pump sampling rate to achieve the desired flow rate of 200 mL/min. This should be performed at the outlet of the vacuum pump prior to purging, either by using a suitable flow meter, or determining the amount of time required to fill a 1-liter Tedlar bag.

5.2 Shut-In Test

Prior to purging or sampling, a shut-in test should be conducted to check for leaks in the above-ground sampling system.

1. Assemble the above-ground valves, lines and fittings downstream from the top of the probe.

2. Evacuate the system to a minimum measured vacuum of about 100 inches of water using the purge pump.

3. Observe the vacuum gauge for 1-2 minutes. If there is any observable loss of vacuum, adjust the above-ground sampling system until the vacuum is maintained.

5.3 System Leak Checking and Purging

Perform a leak check of the sample manifold system by:

1. Make sure the gas probe valve is off and the sample valves are closed.

2. Open the purge valve and start the purge pump. Verify that the flow is set to 200 mL/min until a vacuum of approximately 15" Hg is achieved.

3. Turn off the purge pump and observe the vacuum gauge for 1-2 minutes. If there is any observable loss of vacuum, the leaks must be fixed prior to sampling.

4. Record the leak check date and time on the field notebook.

5.4 Purge Volume Test (Mobile Laboratory Only)

The purpose of the purge volume test is to ensure that stagnant air is removed from the sampling system and to ensure that samples are representative of subsurface conditions. The test well should be located where soil gas concentrations are anticipated to be elevated, if possible.

Perform a purge test of the test well by:

1. Purge the well one purge volume and collect a sample.

2. Have the mobile laboratory analyze the sample for target compounds. Sample procedures are explained in Section 5.6, below.

3. Purge an additional two purge volumes (for a total of 3 purge volumes), collect a sample and submit to the mobile laboratory for analysis.

    a. One purge volume is equal to the sum of the following volumes:

        - The internal volume of tubing;
        - The void space of the sand pack around the probe tip;
        - The void space of the dry bentonite in the annular space.

4. Repeat for a purge of 10 total purge volumes.

5. The site purge volume will be chosen based on the sample with the highest concentration of target compounds from the purge test. All of other sample locations will utilize this purge volume (either one, three, or ten).

5.5 Helium Leak Check (as dictated by DQOs)

The helium leak check procedure is accomplished by:

1. Start the flow of helium under the leak check enclosure. Position the tube so the helium is directed at the interface of the probe and the ground. Let the helium fill the enclosure for a couple of minutes.

2. Turn the helium leak detector on and make sure that the detector is not reading any helium before proceeding.

3. Verify that the helium concentration inside the leak check enclosure is >10% by placing the probe of the helium detector into the hole where the sample tubing comes out or under the enclosure wall. It is not necessary to verify that the helium concentration is 100% as this is bad for the detector.

4. Purging is carried out by pulling soil gas through the system at a rate of 200 mL/min for a time period sufficient to achieve three purge volumes, equal to the sum of the internal volume of the in-ground annular space, sample line, and sampling manifold system.

   Note: When calculating the purge volume, be sure to take into account the inside diameter and length of the sample tubing, as well as the probe outside diameter and retract distance for the annular space for temporary probes. If during the purge (or sampling) the vacuum exceeds 7 "Hg, then reduce the pump flow rate. The system vacuum must stay below this level at all times.

5. To start the soil gas probe purge, open the gas probe valve and close the sample valve at the same time, and start timing. Verify that the flow rate is still 200 mL/min.

6. During the last 5 minutes of the purge (or the entire purge time if less than 5 minutes), attach a Tedlar bag to the purge pump exhaust and open the bag's valve.

7. At the end of the purge time, close the purge valve, close the valve to the Tedlar bag, and turn off the pump.

8. Attach the Tedlar bag to the helium detector and open the valve. If a helium reading of greater than or equal to 5% of the helium concentration inside the leak check enclosure is observed, then the probe leak check has failed and corrective action should be taken.

9. Record the purge date, time, purge rate, leak check result, and purge volume on the field sampling log.

10. Immediately move on to the sampling phase. Little to no delay should occur between purging and sampling.

5.6 Sample Collection

'Clean' sampling protocols must be followed when handling and collecting samples. This requires care in the shipping, storage, and use of sampling equipment. Sharpie markers should not be used for labeling or note-taking during sampling.

1. Attach the canister, tedlar bag or syringe to the sample tubing.

2. Before taking the sample, confirm that the sampling system valves are set as follows: the purge valve is confirmed to be closed, gas probe valve is open, and the sample valve is open.

3. After sampling for the appropriate amount of time, close the sample valve and the canister/tedlar bag valve. Remove the sample container from the sampling manifold.

4. Record the sampling date, time, canister identification (ID), flow controller ID, and any other observation pertinent to the sampling event on the field sampling log. The temperature and barometric pressure should be recorded.

5. Fill out all appropriate documentation (sampling forms, sample labels, chain of custody, sample tags, etc.).

6. Disassemble the sampling system.

END OF PROCEDURE

1.0 PURPOSE

The purpose of this standard operating procedure (SOP) is to describe the considerations and procedures, and to establish the guidelines for drilling (soil borings, wells, or piezometers) and formation sampling activities in unconsolidated formations. There are several drilling techniques available which include: direct push (Geoprobe® or cone penetrometer testing [CPT]), hollow-stem auger, cable tool, hydraulic rotary, cased-hole rotary, air rotary, and Sonic. Formation (sediment/soil) sample collection options include: disturbed (drill cuttings), intact (split-spoon or continuous core), and undisturbed (Shelby-tube or Denison-core). Borehole abandonment (closure) procedures will also be addressed in this SOP.

The objective of drilling is to collect accurate subsurface information. Consequently, the lithologic data is essential information that characterizes subsurface conditions and describes geologic coefficients qualitatively and/or quantitatively.

2.0 DRILLING TECHNIQUE-SELECTION

Verify that the drilling technique is the one specified in the investigation work plan, and that the drilling equipment mobilized by the driller is in good condition and proper working order. Do not permit the driller to use a drilling rig that appears to be substandard, in disrepair, etc., and/or is questionable as to whether or not the rig has the capabilities to accomplish the goals of the drilling program. Complete a drill rig inspection checklist before starting any drilling activities. The drilling rig must be capable of:

a. Penetration of all anticipated subsurface materials and formations at a desired rate, and construction of a borehole of desired diameter.

b. Identification of lithology for development of a geologic log of all unconsolidated formations and materials penetrated, including physical characteristics and visual description of color, grain sizes, sorting and mineralogy.

c. Collection of intact and/or undisturbed soil samples from the center line or sidewall of the borehole. This objective requires the drilling to be halted while soil samples are taken from the bottom or side of the incomplete borehole.

d. Implementation of borehole geophysical logging (when applicable and possible) to enable more accurate vertical and horizontal extrapolation of borehole data to the lithology of the hydrogeologic system.

Drilling will not commence until the following have been completed:

- Development and approval of a drilling specific job safety analysis (JSA)
- a utility mark-out/one call has been conducted at the drilling location(s); and
- the completion of a subsurface clearance procedure checklist.

3.0 DRILLING TECHNIQUE - DESCRIPTION

3.1 Direct Push – The direct push technology includes several types of drilling rigs and drilling equipment that advances a drill string by pushing or hammering without rotating the drill string. Direct push rigs include both Geoprobe® and CPT rigs. Geoprobe® rigs are typically limited to drilling in unconsolidated soil up to approximately 100 feet below ground surface (bgs) under compatible conditions. Formation samples are collected in acetate/plastic sleeves. Advantages include: access and maneuverability due to the rig's small size; fluids are not introduced into the subsurface during drilling; and sampling is relatively inexpensive. Disadvantages include: limitation to drilling depth; limitation to unconsolidated or soft rock drilling; and limitation to small diameter borings. CPT rigs also provide a continuous profile of the soil strata as the rig's sensing equipment is advanced.

3.2 Hollow-Stem Auger - This drilling method is rapid and extremely effective in most cohesive sediments but less so in loose sandy material. A major advantage of this technique is that normally no fluids are introduced into the formation. If the auger flights can be removed and the integrity of the borehole maintained, then electrical and radiation (e.g., gamma, neutron, etc.) geophysical logs can be run. If the auger flights must remain in the borehole, then only radiation geophysical logs can be run. Casing, screen, and sampling devices can then be lowered through the hollow stem by removing the removable plug at the bottom of the auger flights, and gravel/sand packing and cementing can be accomplished within the hollow stem. However, this can be difficult especially below the water table. Auger flight outside diameters (OD) range from 5 inches (in.) to 12 in.

3.3 Cable Tool (Percussion) - This drilling method is slow because the borehole is advanced by lifting and dropping a heavy string of drilling tools. Cuttings accumulate in the drill casing and are removed by a sand bailer. A steel casing is driven in as the hole is deepened. Cable-tool rigs can be used in unconsolidated sediment and bedrock to depths of hundreds or thousands of feet and often employ telescoping techniques for drilling deep boreholes. Electrical geophysical logs cannot be run through the steel cased borehole, but radiation logs (e.g., gamma, neutron, etc.) can be run. Well casing and screen can be installed within the cased hole after which the outer casing is pulled back (removed). Because the boring is cased as it is being drilled, cross-contamination between various depths is practically eliminated. The method provides an excellent means to collect good, representative formation samples.

3.4 Hydraulic Rotary - This drilling method uses a rotating bit to drill (advance) the borehole. Drill cuttings are removed using a recirculated drilling fluid (mud or water). Although setting up the drilling equipment is slow, the drilling process is reasonably fast. In the mud-rotary method, drilling mud forms a cake on the borehole wall which prevents excessive loss of fluid to the formation being drilled. The hydrostatic pressure combined with the weight and density of the mud slurry keeps the hole open. This allows the drill rods to be removed from the

borehole and geophysical logs (electric and radiation) to be run in the open borehole.

In reverse hydraulic rotary drilling, the drilling fluid moves downward through annular space and then upward inside the drill pipe. If the drilling fluid does not contain mud, then sufficient water flow is required as make-up water because the borehole wall is not sealed; therefore, significant water loss can occur to the formation being drilled. The borehole is held open by hydrostatic pressure only. A serious obstacle to this drilling method occurs when the static water level is less than 15 feet below land surface because of insufficient hydrostatic head difference between the borehole and the water table. However, the problems of excessive water loss and shallow depths to water may be overcome by using mud as the drilling fluid.

In mud-rotary drilling, the drilling fluid (mud or polymer) moves downward through the drill pipe and then upward through the annular space. Therefore, the borehole is held open by hydrostatic pressure and the mud cake lining the wall of the borehole. The mud-rotary method can be used to construct moderate to deep wells in unconsolidated (and consolidated material), while the reverse rotary technique can be used to construct moderate to deep wells in unconsolidated materials. The principal disadvantage may be the difficulty in removing mud cake from the formation at the screened zone. Extensive well development may be required to remove the mud cake.

3.5 Cased-Hole Rotary - Several rotary drilling techniques have been developed in which a steel casing is advanced with an air-rotary or mud-rotary drill. This technique is highly desirable for use in exploratory drilling at monitoring sites because water and soil samples may be collected under conditions which preclude contamination from shallower depths. Furthermore, this technique is extremely effective in boulder or cavernous zones which would inhibit or preclude drilling using other techniques. Drilling results are comparable to cable-tool drilling but with greatly enhanced speeds. In all the cased-hole techniques, the main benefit is that the only portion of the borehole which is open, is at the bottom of the drill casing; thus, no soil or water from shallower depths can move down and impact the depth drilled and/or sampled. Electrical geophysical logs cannot be run through the steel-cased borehole, however, radiation logs (e.g., gamma, neutron, etc.) can be run.

Presently, there are three cased-hole rotary techniques which include:

a. The drill-thru casing hammer technique in which the casing is advanced by percussion with a casing hammer or vibratory driver similar to the method used in a borehole drilled by the air-rotary method. The casing hammer can also pull out the casing (air drilling only).

b. The Odex™ Drilling System (European system) which “pulls” the casing using a fixture attached to an air-hammer type drill bit (air drilling only).

c. The Barber™ Drilling System in which drilling is done with a top-head drive and a rotary table that spins casing into the ground. Casing can be fitted with a carbide "shoe" to cut boulders and an air hammer can be used above the bit. Air or mud rotary can be used to lift cuttings.

Two potential problems may be encountered using the cased-hole rotary technique which include: 1) "sand heave" when drilling stops (which can be quickly drilled or bailed out) and 2) possible aeration of water in the cased borehole if volatiles are being tested (which can be overcome by pumping or bailing the standing water out before sampling). The minimum drill casing diameter is 6 inches and depth is limited to approximately 450 feet.

3.6 Air Rotary - This drilling method uses a rotating bit to drill, and high-velocity compressed air to remove cuttings from the borehole. A pneumatic down-hole hammer is often used to add percussion to the rotary drilling action. This drilling method is very fast and, although it is most suitable for penetrating hard bedrock, it can be used in unconsolidated formations. The borehole may be cased or uncased depending on geologic conditions. If an open borehole is drilled, then electrical and radiation (e.g., gamma, neutron, etc.) geophysical logs can be run. If a cased borehole is drilled, then only radiation geophysical logs can be run.

Four potential problems may be encountered when using the air-rotary technique:

a. When a prolific aquifer is tapped, the compressed air may not be able to lift the water to the surface.

b. Aeration of water in the borehole (and finished well) immediately prior to sampling can interfere with a number of inorganic and organic water-quality parameters.

c. Low yield water entry zones may not be identified because the air pressure prevents water from entering the borehole. Care should be taken to prevent overdrilling of the borehole.

d. Air rotary drilling can induce the migration of volatile organics to the surface or adjacent structures causing potential aesthetic or health and safety concerns.

If the air-rotary technique is used then the following special procedures will be implemented:

a. The type of air compressor and lubricating oil will be documented on an appropriate field form and in the field notebook and a 1-pint sample of the oil will be retained for characterization in the event organic compounds are detected in a well sample.

b. An air line oil filter will be required and changed per manufacturer's recommendations during operation with documentation of this

maintenance on an appropriate field form and in the field notebook. More frequent oil filter changes will be made if oil is visibly detected in the filtered air.

c. The use of any additive will be prohibited, except approved water (e.g., potable water) for dust control and cuttings removal.

3.7 Sonic - This drilling method uses a rotating bit to drill, and high-frequency resonant vibrations created by a Sonic drill head. The drill head contains the mechanism necessary for rotary motion as well as an oscillator, which causes a high frequency force to be superimposed on the drill string. The frequency can be varied to suit operating conditions and is generally between 50 and 120 hertz (cycles per second). The vibrations are sent down the drill string to the drill bit, magnifying the amplitude of the drill bit, which (in overburden) fluidizes the soil particles at the bit face. The drill bit is physically vibrating up and down in addition to being pushed down and rotated. These three combined forces allow for relatively fast and easy penetration through most geological formations. The oscillator is driven by a hydraulic motor and uses out of balance weights to generate high sinusoidal forces that are transmitted to the drill bit. An internal spring system isolates these vibrational forces from the rest of the drill rig. Typically, Sonic drilling uses a drilling fluid (i.e., potable water) to facilitate the advancement of the drill bit. The amount of drilling fluid used should be limited during soil collection as to minimize wash-out of the sample.

4.0 DECONTAMINATION

Drilling equipment decontamination procedures are outlined in the field equipment decontamination SOP. Proper decontamination in accordance with regulatory guidelines must be clearly documented in the field notebook.

5.0 PROCEDURE FOR DRILLING

5.1 Safety first. Obtain the appropriate work permit, Job Safety Analysis (JSA) and personal protection equipment (PPE), as specified in the site Health and Safety Plan (HASP).

5.2 Document all drilling-related activities (e.g., starting, stopping, footage, problems, decontamination, etc.) on the daily log form and in the field notebook. Record dates and times of activities, and names of Roux Associates personnel providing oversight.

5.3 Monitor and record drill fluid mix, speed of rotation, pressure on the drill fluid, rate of drilling, and length of drill rods or casing in the borehole, as applicable.

5.4 Confirm that the drill rods and core barrel are straight, or discontinue drilling.

5.5 Pay particular attention to the advancement of the boring because differences in the rate of drilling may be indicative of differences in subsurface geologic conditions (e.g., sand and gravel versus clay).

5.6 Maintain a continuous dialogue with the driller to track and keep informed of all drilling activities (e.g., the speed of the drill and drilling pressure, difficult and easy drilling conditions, etc.).

5.7 Collect formation samples as described in accordance with the work plan. Sample jars must be labeled appropriately (e.g., project number and name, site location, boring number, date, sample interval, blow counts, and initials of Roux Associates personnel collecting sample).

5.8 Record geologic information in the soil boring log form and in the field notebook.

5.9 Handle and ship split-spoon sample jars carefully to avoid breakage and handle and ship tubes or cores carefully to prevent disturbance.

6.0 PROCEDURE FOR FORMATION SAMPLING

6.1 Safety first. Obtain the appropriate JSA and PPE, as specified in the site HASP.

6.2 Intact formation sampling will be implemented using continuous core or split-spoon samplers (which are driven), Shelby-tube samplers (which are pushed), or Denison-core samplers (which are rotated) depending on the drilling technique employed. Formation samples will be retained in core barrel liners/tubes or suitable size jars for physical descriptions and potential physical and chemical analysis. The appropriately labeled jars and tubes will be stored in a safe place to avoid breakage, agitation, and over-heating/freezing. Intact formation samples will be collected at specified intervals as described in the work plan. Geologic information will be recorded on a geologic log form on the appropriate field form. Detailed descriptions of the type(s) of intact sample(s) collected, sampling intervals and conditions, and objective(s) of the sample collection will be provided in the work plan.

6.3 Soil cores from the wells drilled at the Site are used for lithologic identification and physical property analysis. Soil core samples will be collected using a direct push continuous core (acetate/PVC liners) or split-spoon sampler (6-inch stainless steel sample containers). The soil core sample intervals will be specified in the work plan.

6.4 Sampling equipment will be decontaminated by steam cleaning and/or a non-phosphate, laboratory-grade and distilled/deionized wash followed by a distilled/deionized water rinse. (Refer to the field equipment decontamination SOP for a detailed description of minimum and special decontamination procedures.) Decontamination of sediment sampling equipment will take place prior to the collection of the first sample and following the collection of each subsequent sample.

7.0 BOREHOLE ABANDONMENT OR CLOSURE

7.1 Safety first. Obtain the appropriate JSA and PPE, as specified in the site HASP.

7.2 Upon the completion of the investigation, boreholes will be abandoned as specified in the workplan.

7.3 For each abandoned borehole, the procedure will be documented in the field notebook.

END OF PROCEDURE

1.0 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to provide guidance for the installation of temporary soil gas probes for the collection of shallow soil gas samples. This SOP should be used where its application is consistent with the project's data quality objectives (DQOs) and in conjunction with the SOP for soil gas collection.

2.0 MATERIALS

- 1/8 to 1/4 inch sampling tubing – metal, nylon, PEEK, Teflon
- Appropriate Fittings
- Bentonite Chips
- Water
- Drilling Apparatus

Note: It is necessary to coordinate the hardware (i.e. size of tubing, fittings, sampling interface assembly, etc.) for the soil gas probe sampling line with the sampling system (i.e. Tedlar bags, Summa canisters, etc.). This step is critical to achieve a leak free system.

3.0 PROCEDURE

Temporary soil gas probe installation procedures are described below to ensure that a quality sample is able to be obtained and to minimize ambient air migrating into the sample. Soil gas wells may be installed using various types of drilling methods, however, some drilling methods can disrupt the surrounding soil gas and will require a longer equilibration time prior to sampling. The steps to installing the temporary point are:

1) Drill a borehole to the required depth as shown on the sample plan or scope of work.

2) Install a 6-12 inches sand pack at the bottom and install the probe tip (with attached tubing) approximately 3-4 inches into the sand pack. Use extra tubing so that sufficient amount (1-2 feet) will be left above ground. Plug the exposed end of the tubing.

3) Install 12 inches of dry granular bentonite on top of the sand pack.

4) Fill the remaining annular space with hydrated bentonite in 6" lifts.

   - If multiple probes depths are to be installed at the same location, the hydrated bentonite shall be installed to the top the next testing interval. Sand pack and the dry bentonite will then be installed as normal.

5) Repair the ground surface to original condition.

6) Secure and mark the tubing at the surface with the location ID and depth.

END OF PROCEDURE

ATTACHMENT 4

NYSDEC PFAS Sampling Guidance

NEW YORK STATE OF OPPORTUNITY.

Department of Environmental Conservation

SAMPLING, ANALYSIS, AND ASSESSMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

Under NYSDEC's Part 375 Remedial Programs

April 2023



www.dec.ny.gov

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ERRATA SHEET for

SAMPLING, ANALYSIS, AND ASSESSMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) Under NYSDEC's Part 375 Remedial Programs Issued January 17, 2020

Citation and Page Number	Current Text	Corrected Text	Date
Title of Appendix I, page 32	Appendix H	Appendix I	2/25/2020
Document Cover, page 1	Guidelines for Sampling and Analysis of PFAS	Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs	9/15/2020
Data Assessment and Application to Site Cleanup Page 3	Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published	Until such time as Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published	3/28/2023
Water Sample Results Page 3	PFOA and PFOS should be further assessed and considered as potential contaminants of concern in groundwater or surface water if PFOA or PFOS is detected in any water sample at or above 10 ng/L (ppt) and is determined to be attributable to the site, either by a comparison of upgradient and downgradient levels, or the presence of soil source areas, as defined below.	NYSDEC has adopted ambient water quality guidance values for PFOA and PFOS. Groundwater samples should be compared to the human health criteria of 6.7 ng/l (ppt) for PFOA and 2.7 ng/l (ppt) for PFOS. These guidance values also include criteria for surface water for PFOS applicable for aquatic life, which may be applicable at some sites. Drinking water sample results should be compared to the NYS maximum contaminant level (MCL) of 10 ng/l (ppt).Analysis to determine if PFOA and PFOS concentrations are attributable to the site should include a comparison between upgradient and downgradient levels, and the presence of soil source areas, as defined below.	3/28/2023
Soil Sample Results Page 3	Soil cleanup objectives for PFOA and PFOS have been proposed in an upcoming revision to 6 NYCRR Part 375-6. Until SCOs are in effect, the following are to be used as guidance values:	NYSDEC will delay adding soil cleanup objectives for PFOA and PFOS to 6 NYCRR Part 375-6 until the PFAS rural soil background study has been completed. Until SCOs are in effect, the following are to be used as guidance values:	3/28/2023
Protection of Groundwater Page 3	PFOA (ppb) 1.1 PFOS (ppb) 3.7	PFOA (ppb) 0.8 PFOS (ppb) 1.0	3/28/2023

Citation and Page Number	Current Text	Corrected Text	Date
Footnote 2 Page 3	The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the guidance value for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).	The Protection of Groundwater values are based on the above referenced ambient groundwater guidance values. Details on that calculation are available in the following document, prepared for the February 2022 proposed changes to Part 375 (https://www.dec.ny.gov/docs/remediation_hudson_pdf/part375techsupport.pdf). The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the guidance value for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).	3/28/2023
Testing for Imported Soil Page 4	If the concentrations of PFOA and PFOS in leachate are at or above 10 ppt (the Maximum Contaminant Levels established for drinking water by the New York State Department of Health), then the soil is not acceptable.	If the concentrations of PFOA and PFOS in leachate are at or above the ambient water quality guidance values for groundwater, then the soil is not acceptable.	3/28/2023
Routine Analysis, page 9	"However, laboratories analyzing environmental samples…PFOA and PFOS in drinking water by EPA Method 537, 537.1 or ISO 25101."	"However, laboratories analyzing environmental samples…PFOA and PFOS in drinking water by EPA Method 537, 537.1, ISO 25101, or Method 533."	9/15/2020
Additional Analysis, page 9, new paragraph regarding soil parameters	None	"In cases where site-specific cleanup objectives for PFOA and PFOS are to be assessed, soil parameters, such as Total Organic Carbon (EPA Method 9060), soil pH (EPA Method 9045), clay content (percent), and cation exchange capacity (EPA Method 9081), should be included in the analysis to help evaluate factors affecting the leachability of PFAS in site soils."	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Data Assessment and Application to Site Cleanup Page 10	Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFAS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10. Target levels for cleanup of PFAS in other media, including biota and sediment, have not yet been established by the DEC.	Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10. Preliminary target levels for cleanup of PFOA and PFOS in other media, including biota and sediment, have not yet been established by the DEC.	9/15/2020
Water Sample Results Page 10	PFAS should be further assessed and considered as a potential contaminant of concern in groundwater or surface water (…) If PFAS are identified as a contaminant of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.	PFOA and PFOS should be further assessed and considered as potential contaminants of concern in groundwater or surface water (…) If PFOA and/or PFOS are identified as contaminants of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Soil Sample Results, page 10	"The extent of soil contamination for purposes of delineation and remedy selection should be determined by having certain soil samples tested by Synthetic Precipitation Leaching Procedure (SPLP) and the leachate analyzed for PFAS. Soil exhibiting SPLP results above 70 ppt for either PFOA or PFOS (individually or combined) are to be evaluated during the cleanup phase."	"Soil cleanup objectives for PFOA and PFOS will be proposed in an upcoming revision to 6 NYCRR Part 375-6. Until SCOs are in effect, the following are to be used as guidance values. " [Interim SCO Table] "PFOA and PFOS results for soil are to be compared against the guidance values listed above. These guidance values are to be used in determining whether PFOA and PFOS are contaminants of concern for the site and for determining remedial action objectives and cleanup requirements. Site-specific remedial objectives for protection of groundwater can also be presented for evaluation by DEC. Development of site-specific remedial objectives for protection of groundwater will require analysis of additional soil parameters relating to leachability. These additional analyses can include any or all the parameters listed above (soil pH, cation exchange capacity, etc.) and/or use of SPLP. As the understanding of PFAS transport improves, DEC welcomes proposals for site-specific remedial objectives for protection of groundwater. DEC will expect that those may be dependent on additional factors including soil pH, aqueous pH, % organic carbon, % Sand/Silt/Clay, soil cations: K, Ca, Mg, Na, Fe, Al, cation exchange capacity, and anion exchange capacity. Site-specific remedial objectives should also consider the dilution attenuation factor (DAF). The NJDEP publication on DAF can be used as a reference: https://www.nj.gov/dep/srp/guidance/rs/daf.pdf. "	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Testing for Imported Soil Page 11	Soil imported to a site for use in a soil cap, soil cover, or as backfill is to be tested for PFAS in general conformance with DER-10, Section 5.4(e) for the PFAS Analyte List (Appendix F) using the analytical procedures discussed below and the criteria in DER-10 associated with SVOCs. If PFOA or PFOS is detected in any sample at or above 1 µg/kg, then soil should be tested by SPLP and the leachate analyzed for PFAS. If the SPLP results exceed 10 ppt for either PFOA or PFOS (individually) then the source of backfill should be rejected, unless a site-specific exemption is provided by DER. SPLP leachate criteria is based on the Maximum Contaminant Levels proposed for drinking water by New York State's Department of Health, this value may be updated based on future Federal or State promulgated regulatory standards. Remedial parties have the option of analyzing samples concurrently for both PFAS in soil and in the SPLP leachate to minimize project delays. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.	Testing for PFAS should be included any time a full TAL/TCL analyte list is required. Results for PFOA and PFOS should be compared to the applicable guidance values. If PFOA or PFOS is detected in any sample at or above the guidance values then the source of backfill should be rejected, unless a site-specific exemption is provided by DER based on SPLP testing, for example. If the concentrations of PFOA and PFOS in leachate are at or above 10 ppt (the Maximum Contaminant Levels established for drinking water by the New York State Department of Health), then the soil is not acceptable. PFOA, PFOS and 1,4-dioxane are all considered semi-volatile compounds, so composite samples are appropriate for these compounds when sampling in accordance with DER-10, Table 5.4(e)10. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Footnotes	None	[1] TOP Assay analysis of highly contaminated samples, such as those from an AFFF (aqueous film-forming foam) site, can result in incomplete oxidation of the samples and an underestimation of the total perfluoroalkyl substances. [2] The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the soil cleanup objective for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).	9/15/2020
Additional Analysis, page 9	In cases… soil parameters, such as Total Organic Carbon (EPA Method 9060), soil…	In cases… soil parameters, such as Total Organic Carbon (Lloyd Kahn), soil…	1/8/2021
Appendix A, General Guidelines, fourth bullet	List the ELAP-approved lab(s) to be used for analysis of samples	List the ELAP- certified lab(s) to be used for analysis of samples	1/8/2021
Appendix E, Laboratory Analysis and Containers	Drinking water samples collected using this protocol are intended to be analyzed for PFAS by ISO Method 25101.	Drinking water samples collected using this protocol are intended to be analyzed for PFAS by EPA Method 537, 537.1, 533, or ISO Method 25101	1/8/2021
Water Sample Results Page 9	"In addition, further assessment of water may be warranted if either of the following screening levels are met: a. any other individual PFAS (not PFOA or PFOS) is detected in water at or above 100 ng/L; or b. total concentration of PFAS (including PFOA and PFOS) is detected in water at or above 500 ng/L"	Deleted	6/15/2021

Citation and Page Number	Current Text	Corrected Text	Date
Routine Analysis, Page XX	Currently, New York State Department of Health's Environmental Laboratory Approval Program (ELAP)… criteria set forth in the DER's laboratory guidelines for PFAS in non-potable water and solids (Appendix H - Laboratory Guidelines for Analysis of PFAS in Non-Potable Water and Solids).	Deleted	5/31/2022
Analysis and Reporting, Page XX	As of October 2020, the United States Environmental Protection Agency (EPA) does not have a validated method for analysis of PFAS for media commonly analyzed under DER remedial programs (non-potable waters, solids). DER has developed the following guidelines to ensure consistency in analysis and reporting of PFAS.	Deleted	5/31/2022
Routine Analysis, Page XX	LC-MS/MS analysis for PFAS using methodologies based on EPA Method 537.1 is the procedure to use for environmental samples. Isotope dilution techniques should be utilized for the analysis of PFAS in all media.	EPA Method 1633 is the procedure to use for environmental samples.	
Soil Sample Results, Page XX	Soil cleanup objectives for PFOA and PFOS will be proposed in an upcoming revision to 6 NYCRR Part 375-6	Soil cleanup objectives for PFOA and PFOS have been proposed in an upcoming revision to 6 NYCRR Part 375-6	
Appendix A	"Include in the text… LC-MS/MS for PFAS using methodologies based on EPA Method 537.1"	"Include in the text ….EPA Method 1633"	
Appendix A	"Laboratory should have ELAP certification for PFOA and PFOS in drinking water by EPA Method 537, 537.1, EPA Method 533, or ISO 25101"	Deleted	
Appendix B	"Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1"	"Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633"	

Citation and Page Number	Current Text	Corrected Text	Date
Appendix C	"Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1"	"Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633"	
Appendix D	"Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1"	"Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633"	
Appendix G		Updated to include all forty PFAS analytes in EPA Method 533	
Appendix H		Deleted	
Appendix I	Appendix I	Appendix H	
Appendix H	"These guidelines are intended to be used for the validation of PFAS analytical results for projects within the Division of Environmental Remediation (DER) as well as aid in the preparation of a data usability summary report."	"These guidelines are intended to be used for the validation of PFAS using EPA Method 1633 for projects within the Division of Environmental Remediation (DER)."	
Appendix H	"The holding time is 14 days…"	"The holding time is 28 days…"	
Appendix H, Initial Calibration	"The initial calibration should contain a minimum of five standards for linear fit…"	"The initial calibration should contain a minimum of six standards for linear fit…"	
Appendix H, Initial Calibration	Linear fit calibration curves should have an R^2 value greater than 0.990.	Deleted	
Appendix H, Initial Calibration Verification	Initial Calibration Verification Section	Deleted	
Appendix H	secondary Ion Monitoring Section	Deleted	
Appendix H	Branched and Linear Isomers Section	Deleted	

Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs

Objective

New York State Department of Environmental Conservation's Division of Environmental Remediation (DER) performs or oversees sampling of environmental media and subsequent analysis of PFAS as part of remedial programs implemented under 6 NYCRR Part 375. To ensure consistency in sampling, analysis, reporting, and assessment of PFAS, DER has developed this document which summarizes currently accepted procedures and updates previous DER technical guidance pertaining to PFAS.

Applicability

All work plans submitted to DEC pursuant to one of the remedial programs under Part 375 shall include PFAS sampling and analysis procedures that conform to the guidelines provided herein.

As part of a site investigation or remedial action compliance program, whenever samples of potentially affected media are collected and analyzed for the standard Target Analyte List/Target Compound List (TAL/TCL), PFAS analysis should also be performed. Potentially affected media can include soil, groundwater, surface water, and sediment. Based upon the potential for biota to be affected, biota sampling and analysis for PFAS may also be warranted as determined pursuant to a Fish and Wildlife Impact Analysis. Soil vapor sampling for PFAS is not required.

Field Sampling Procedures

DER-10 specifies technical guidance applicable to DER's remedial programs. Given the prevalence and use of PFAS, DER has developed "best management practices" specific to sampling for PFAS. As specified in DER-10 Chapter 2, quality assurance procedures are to be submitted with investigation work plans. Typically, these procedures are incorporated into a work plan, or submitted as a stand-alone document (e.g., a Quality Assurance Project Plan). Quality assurance guidelines for PFAS are listed in Appendix A - Quality Assurance Project Plan (QAPP) Guidelines for PFAS.

Field sampling for PFAS performed under DER remedial programs should follow the appropriate procedures outlined for soils, sediments, or other solids (Appendix B), non-potable groundwater (Appendix C), surface water (Appendix D), public or private water supply wells (Appendix E), and fish tissue (Appendix F).

QA/QC samples (e.g. duplicates, MS/MSD) should be collected as specified in DER-10, Section 2.3(c). For sampling equipment coming in contact with aqueous samples only, rinsate or equipment blanks should be collected. Equipment blanks should be collected at a minimum frequency of one per day per site or one per twenty samples, whichever is more frequent.

Analysis and Reporting

The investigation work plan should describe analysis and reporting procedures, including laboratory analytical procedures for the methods discussed below. As specified in DER-10 Section 2.2, laboratories should provide a full Category B deliverable. In addition, a Data Usability Summary Report (DUSR) should be prepared by an independent, third-party data validator. Electronic data submissions should meet the requirements provided at: https://www.dec.ny.gov/chemical/62440.html.

DER has developed a *PFAS Analyte List* (Appendix G) for remedial programs to understand the nature of contamination at sites. It is expected that reported results for PFAS will include, at a minimum, all the compounds listed. If lab and/or matrix specific issues are encountered for any analytes, the DER project manager, in consultation with the DER chemist, will make case-by-case decisions as to whether certain analytes may be temporarily or permanently discontinued from analysis at each site. As with other contaminants that are analyzed for at a site, the *PFAS Analyte List* may be refined for future sampling events based on investigative findings.

Routine Analysis

EPA Method 1633 is the procedure to use for environmental samples. Reporting limits for PFOA and PFOS in aqueous samples should not exceed 2 ng/L. Reporting limits for PFOA and PFOS in solid samples should not exceed 0.5 µg/kg. Reporting limits for all other PFAS in aqueous and solid media should be as close to these limits as possible. If laboratories indicate that they are not able to achieve these reporting limits for the entire *PFAS Analyte List*, site-specific decisions regarding acceptance of elevated reporting limits for specific PFAS can be made by the DER project manager in consultation with the DER chemist. Data review guidelines were developed by DER to ensure data comparability and usability (Appendix H - Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids).

Additional Analysis

Additional laboratory methods for analysis of PFAS may be warranted at a site, such as the Synthetic Precipitation Leaching Procedure (SPLP) and Total Oxidizable Precursor Assay (TOP Assay).

In cases where site-specific cleanup objectives for PFOA and PFOS are to be assessed, soil parameters, such as Total Organic Carbon (Lloyd Kahn), soil pH (EPA Method 9045), clay content (percent), and cation exchange capacity (EPA Method 9081), should be included in the analysis to help evaluate factors affecting the leachability of PFAS in site soils.

SPLP is a technique used to determine the mobility of chemicals in liquids, soils and wastes, and may be useful in determining the need for addressing PFAS-containing material as part of the remedy. SPLP by EPA Method 1312 should be used unless otherwise specified by the DER project manager in consultation with the DER chemist.

Impacted materials can be made up of PFAS that are not analyzable by routine analytical methodology. A TOP Assay can be utilized to conceptualize the amount and type of oxidizable PFAS which could be liberated in the environment, which approximates the maximum concentration of perfluoroalkyl substances that could be generated if all polyfluoroalkyl substances were oxidized. For example, some polyfluoroalkyl substances may degrade or transform to form perfluoroalkyl substances (such as PFOA or PFOS), resulting in an increase in perfluoroalkyl substance concentrations as contaminated groundwater moves away from a source. The TOP Assay converts, through oxidation, polyfluoroalkyl substances (precursors) into perfluoroalkyl substances that can be detected by routine analytical methodology.[1]

[1] TOP Assay analysis of highly contaminated samples, such as those from an AFFF (aqueous film-forming foam) site, can result in incomplete oxidation of the samples and an underestimation of the total perfluoroalkyl substances.

Commercial laboratories have adopted methods which allow for the quantification of targeted PFAS in air and biota. The EPA's Office of Research and Development (ORD) is currently developing methods which allow for air emissions characterization of PFAS, including both targeted and non-targeted analysis of PFAS. Consult with the DER project manager and the DER chemist for assistance on analyzing biota/tissue and air samples.

Data Assessment and Application to Site Cleanup

Until such time as Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10. Preliminary target levels for cleanup of PFOA and PFOS in other media, including biota and sediment, have not yet been established by the DEC.

Water Sample Results

NYSDEC has adopted ambient water quality guidance values for PFOA and PFOS. Groundwater samples should be compared to the human health criteria of 6.7 ng/l (ppt) for PFOA and 2.7 ng/l (ppt) for PFOS. These human health criteria should also be applied to surface water that is used as a water supply. This guidance also includes criteria for surface water for PFOS applicable for aquatic life, which may be applicable at some sites. Drinking water sample results should be compared to the NYS maximum contaminant level (MCL) of 10 ng/l (ppt). Analysis to determine if PFOA and PFOS concentrations are attributable to the site should include a comparison between upgradient and downgradient levels, and the presence of soil source areas, as defined below.

If PFOA and/or PFOS are identified as contaminants of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.

Soil Sample Results

NYSDEC will delay adding soil cleanup objectives for PFOA and PFOS to 6 NYCRR Part 375-6 until the PFAS rural soil background study has been completed. Until SCOs are in effect, the following are to be used as guidance values:

Guidance Values for Anticipated Site Use	PFOA (ppb)	PFOS (ppb)
Unrestricted	0.66	0.88
Residential	6.6	8.8
Restricted Residential	33	44
Commercial	500	440
Industrial	600	440
Protection of Groundwater[2]	0.8	1.0

PFOA and PFOS results for soil are to be compared against the guidance values listed above. These guidance values are to be used in determining whether PFOA and PFOS are contaminants of concern for the site and for determining remedial action objectives and cleanup requirements. Site-specific remedial objectives for protection of groundwater can also be presented for evaluation by DEC. Development of site-specific remedial objectives for protection of groundwater will require analysis of additional soil parameters relating to leachability. These

[2] The Protection of Groundwater values are based on the above referenced ambient groundwater guidance values. Details on that calculation are available in the following document, prepared for the February 2022 proposed changes to Part 375 (https://www.dec.ny.gov/docs/remediation_hudson_pdf/part375techsupport.pdf). The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the guidance value for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).

additional analyses can include any or all the parameters listed above (soil pH, cation exchange capacity, etc.) and/or use of SPLP.

As the understanding of PFAS transport improves, DEC welcomes proposals for site-specific remedial objectives for protection of groundwater. DEC will expect that those may be dependent on additional factors including soil pH, aqueous pH, % organic carbon, % Sand/Silt/Clay, soil cations: K, Ca, Mg, Na, Fe, Al, cation exchange capacity, and anion exchange capacity. Site-specific remedial objectives should also consider the dilution attenuation factor (DAF). The NJDEP publication on DAF can be used as a reference: https://www.nj.gov/dep/srp/guidance/rs/daf.pdf.

Testing for Imported Soil

Testing for PFAS should be included any time a full TAL/TCL analyte list is required. Results for PFOA and PFOS should be compared to the applicable guidance values. If PFOA or PFOS is detected in any sample at or above the guidance values then the source of backfill should be rejected, unless a site-specific exemption is provided by DER based on SPLP testing, for example. If the concentrations of PFOA and PFOS in leachate are at or above the ambient water quality guidance values for groundwater, then the soil is not acceptable.

PFOA, PFOS and 1,4-dioxane are all considered semi-volatile compounds, so composite samples are appropriate for these compounds when sampling in accordance with DER-10, Table 5.4(e)10. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.

Appendix A - Quality Assurance Project Plan (QAPP) Guidelines for PFAS

The following guidelines (general and PFAS-specific) can be used to assist with the development of a QAPP for projects within DER involving sampling and analysis of PFAS.

General Guidelines in Accordance with DER-10

- Document/work plan section title – Quality Assurance Project Plan
- Summarize project scope, goals, and objectives
- Provide project organization including names and resumes of the project manager, Quality Assurance Officer (QAO), field staff, and Data Validator
    - The QAO should not have another position on the project, such as project or task manager, that involves project productivity or profitability as a job performance criterion
- List the ELAP certified lab(s) to be used for analysis of samples
- Include a site map showing sample locations
- Provide detailed sampling procedures for each matrix
- Include Data Quality Usability Objectives
- List equipment decontamination procedures
- Include an "Analytical Methods/Quality Assurance Summary Table" specifying:
    - Matrix type
    - Number or frequency of samples to be collected per matrix
    - Number of field and trip blanks per matrix
    - Analytical parameters to be measured per matrix
    - Analytical methods to be used per matrix with minimum reporting limits
    - Number and type of matrix spike and matrix spike duplicate samples to be collected
    - Number and type of duplicate samples to be collected
    - Sample preservation to be used per analytical method and sample matrix
    - Sample container volume and type to be used per analytical method and sample matrix
    - Sample holding time to be used per analytical method and sample matrix
- Specify Category B laboratory data deliverables and preparation of a DUSR

Specific Guidelines for PFAS

- Include in the text that sampling for PFAS will take place
- Include in the text that PFAS will be analyzed by EPA Method 1633
- Include the list of PFAS compounds to be analyzed (*PFAS Analyte List*)
- Include the laboratory SOP for PFAS analysis
- List the minimum method-achievable Reporting Limits for PFAS
    - Reporting Limits should be less than or equal to:
        - Aqueous – 2 ng/L (ppt)
        - Solids – 0.5 µg/kg (ppb)
- Include the laboratory Method Detection Limits for the PFAS compounds to be analyzed
-
- Include detailed sampling procedures
    - Precautions to be taken
    - Pump and equipment types
    - Decontamination procedures
    - Approved materials only to be used
- Specify that regular ice only will be used for sample shipment
- Specify that equipment blanks should be collected at a minimum frequency of 1 per day per site for each matrix

Appendix B - Sampling Protocols for PFAS in Soils, Sediments and Solids

General

The objective of this protocol is to give general guidelines for the collection of soil, sediment and other solid samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Containers

Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in to contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel spoon
- stainless steel bowl
- steel hand auger or shovel without any coatings

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Sampling is often conducted in areas where a vegetative turf has been established. In these cases, a pre-cleaned trowel or shovel should be used to carefully remove the turf so that it may be replaced at the conclusion of sampling. Surface soil samples (e.g. 0 to 6 inches below surface) should then be collected using a pre-cleaned, stainless steel spoon. Shallow subsurface soil samples (e.g. 6 to ~36 inches below surface) may be collected by digging a hole using a pre-cleaned hand auger or shovel. When the desired subsurface depth is reached, a pre-cleaned hand auger or spoon shall be used to obtain the sample.

When the sample is obtained, it should be deposited into a stainless steel bowl for mixing prior to filling the sample containers. The soil should be placed directly into the bowl and mixed thoroughly by rolling the material into the middle until the material is homogenized. At this point the material within the bowl can be placed into the laboratory provided container.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A soil log or sample log shall document the location of the sample/borehole, depth of the sample, sampling equipment, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix C - Sampling Protocols for PFAS in Monitoring Wells

General

The objective of this protocol is to give general guidelines for the collection of groundwater samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include: stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including plumbers tape and sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel inertia pump with HDPE tubing
- peristaltic pump equipped with HDPE tubing and silicone tubing
- stainless steel bailer with stainless steel ball
- bladder pump (identified as PFAS-free) with HDPE tubing

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Monitoring wells should be purged in accordance with the sampling procedure (standard/volume purge or low flow purge) identified in the site work plan, which will determine the appropriate time to collect the sample. If sampling using standard purge techniques, additional purging may be needed to reduce turbidity levels, so samples contain a limited amount of sediment within the sample containers. Sample containers that contain sediment may cause issues at the laboratory, which may result in elevated reporting limits and other issues during the sample preparation that can compromise data usability. Sampling personnel should don new nitrile gloves prior to sample collection due to the potential to contact PFAS containing items (not related to the sampling equipment) during the purging activities.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Collect one equipment blank per day per site and minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers
- Additional equipment blank samples may be collected to assess other equipment that is utilized at the monitoring well
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A purge log shall document the location of the sample, sampling equipment, groundwater parameters, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix D - Sampling Protocols for PFAS in Surface Water

General

The objective of this protocol is to give general guidelines for the collection of surface water samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include: stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel cup

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Where conditions permit, (e.g. creek or pond) sampling devices (e.g. stainless steel cup) should be rinsed with site medium to be sampled prior to collection of the sample. At this point the sample can be collected and poured into the sample container.

If site conditions permit, samples can be collected directly into the laboratory container.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Collect one equipment blank per day per site and minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A sample log shall document the location of the sample, sampling equipment, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix E - Sampling Protocols for PFAS in Private Water Supply Wells

General

The objective of this protocol is to give general guidelines for the collection of water samples from private water supply wells (with a functioning pump) for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Drinking water samples collected using this protocol are intended to be analyzed for PFAS by EPA Method 537, 537.1, 533, or ISO Method 25101. The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials (e.g. plumbers tape), including sample bottle cap liners with a PTFE layer.

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Locate and assess the pressure tank and determine if any filter units are present within the building. Establish the sample location as close to the well pump as possible, which is typically the spigot at the pressure tank. Ensure sampling equipment is kept clean during sampling as access to the pressure tank spigot, which is likely located close to the ground, may be obstructed and may hinder sample collection.

Prior to sampling, a faucet downstream of the pressure tank (e.g., washroom sink) should be run until the well pump comes on and a decrease in water temperature is noted which indicates that the water is coming from the well. If the homeowner is amenable, staff should run the water longer to purge the well (15+ minutes) to provide a sample representative of the water in the formation rather than standing water in the well and piping system including the pressure tank. At this point a new pair of nitrile gloves should be donned and the sample can be collected from the sample point at the pressure tank.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- If equipment was used, collect one equipment blank per day per site and a minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers.
- A field reagent blank (FRB) should be collected at a rate of one per 20 samples. The lab will provide a FRB bottle containing PFAS free water and one empty FRB bottle. In the field, pour the water from the one bottle into the empty FRB bottle and label appropriately.
- Request appropriate data deliverable (Category B) and an electronic data deliverable
- For sampling events where multiple private wells (homes or sites) are to be sampled per day, it is acceptable to collect QC samples at a rate of one per 20 across multiple sites or days.

Documentation

A sample log shall document the location of the private well, sample point location, owner contact information, sampling equipment, purge duration, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate and available (e.g. well construction, pump type and location, yield, installation date). Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appendix F - Sampling Protocols for PFAS in Fish

This appendix contains a copy of the current SOP developed by the Division of Fish and Wildlife (DFW) entitled "General Fish Handling Procedures for Contaminant Analysis" (Ver. 8). This SOP should be followed when collecting fish for contaminant analysis. Note, however, that the Bureau of Ecosystem Health will not be supplying bags or tags. All supplies are the responsibility of the collector

Procedure Name: General Fish Handling Procedures for Contaminant Analysis

Number: FW-005

Purpose: This procedure describes data collection, fish processing and delivery of fish collected for contaminant monitoring. It contains the chain of custody and collection record forms that should be used for the collections.

Organization: Environmental Monitoring Section
Bureau of Ecosystem Health
Division of Fish and Wildlife (DFW)
New York State Department of Environmental Conservation (NYSDEC)
625 Broadway
Albany, New York 12233-4756

Version: 8

Previous Version Date: 21 March 2018

Summary of Changes to this Version: Updated bureau name to Bureau of Ecosystem Health. Added direction to list the names of all field crew on the collection record. Minor formatting changes on chain of custody and collection records.

Originator or Revised by: Wayne Richter, Jesse Becker

Date: 26 April 2019

Quality Assurance Officer and Approval Date: Jesse Becker, 26 April 2019

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GENERAL FISH HANDLING PROCEDURES FOR CONTAMINANT ANALYSES

A. Original copies of all continuity of evidence (i.e., Chain of Custody) and collection record forms must accompany delivery of fish to the lab. A copy shall be directed to the Project Leader or as appropriate, Wayne Richter. All necessary forms will be supplied by the Bureau of Ecosystem Health. Because some samples may be used in legal cases, it is critical that each section is filled out completely. Each Chain of Custody form has three main sections:

   1. The top box is to be filled out **and signed** by the person responsible for the fish collection (e.g., crew leader, field biologist, researcher). This person is responsible for delivery of the samples to DEC facilities or personnel (e.g., regional office or biologist).

   2. The second section is to be filled out **and signed** by the person responsible for the collections while being stored at DEC, before delivery to the analytical lab. This may be the same person as in (1), but it is still required that they complete the section. Also important is the **range of identification numbers** (i.e., tag numbers) included in the sample batch.

   3. Finally, the bottom box is to record any transfers between DEC personnel and facilities. Each subsequent transfer should be **identified, signed, and dated**, until laboratory personnel take possession of the fish.

B. The following data are required on each **Fish Collection Record** form:

   1. Project and Site Name.

   2. DEC Region.

   3. All personnel (and affiliation) involved in the collection.

   4. Method of collection (gill net, hook and line, etc.)

   5. Preservation Method.

C. The following data are to be taken on each fish collected and recorded on the **Fish Collection Record** form:

   1. Tag number - Each specimen is to be individually jaw tagged at time of collection with a unique number. Make sure the tag is turned out so that the number can be read without opening the bag. Use tags in sequential order. For small fish or composite samples place the tag inside the bag with the samples. The Bureau of Ecosystem Health can supply the tags.

   2. Species identification (please be explicit enough to enable assigning genus and species). Group fish by species when processing.

   3. Date collected.

   4. Sample location (waterway and nearest prominent identifiable landmark).

   5. Total length (nearest mm or smallest sub-unit on measuring instrument) and weight (nearest g or

smallest sub-unit of weight on weighing instrument). Take all measures as soon as possible with calibrated, protected instruments (e.g. from wind and upsets) and prior to freezing.

6. Sex - fish may be cut enough to allow sexing or other internal investigation, but do not eviscerate. Make any incision on the right side of the belly flap or exactly down the midline so that a left-side fillet can be removed.

D. General data collection recommendations:

1. It is helpful to use an ID or tag number that will be unique. It is best to use metal striped bass or other uniquely numbered metal tags. If uniquely numbered tags are unavailable, values based on the region, water body and year are likely to be unique: for example, R7CAY11001 for Region 7, Cayuga Lake, 2011, fish 1. If the fish are just numbered 1 through 20, we have to give them new numbers for our database, making it more difficult to trace your fish to their analytical results and creating an additional possibility for errors.

2. Process and record fish of the same species sequentially. Recording mistakes are less likely when all fish from a species are processed together. Starting with the bigger fish species helps avoid missing an individual.

3. If using Bureau of Ecosystem Health supplied tags or other numbered tags, use tags in sequence so that fish are recorded with sequential Tag Numbers. This makes data entry and login at the lab and use of the data in the future easier and reduces keypunch errors.

4. Record length and weight as soon as possible after collection and before freezing. Other data are recorded in the field upon collection. An age determination of each fish is optional, but if done, it is recorded in the appropriate “Age” column.

5. For composite samples of small fish, record the number of fish in the composite in the Remarks column. Record the length and weight of each individual in a composite. All fish in a composite sample should be of the same species and members of a composite should be visually matched for size.

6. Please submit photocopies of topographic maps or good quality navigation charts indicating sampling locations. GPS coordinates can be entered in the Location column of the collection record form in addition to or instead for providing a map. These records are of immense help to us (and hopefully you) in providing documented location records which are not dependent on memory and/or the same collection crew. In addition, they may be helpful for contaminant source trackdown and remediation/control efforts of the Department.

7. When recording data on fish measurements, it will help to ensure correct data recording for the data recorder to call back the numbers to the person making the measurements.

E. Each fish is to be placed in its own individual plastic bag. For small fish to be analyzed as a composite, put all of the fish for one composite in the same bag but use a separate bag for each composite. It is important to individually bag the fish to avoid difficulties or cross contamination when processing the fish for chemical analysis. Be sure to include the fish’s tag number inside the bag, preferably attached to the fish with the tag number turned out so it can be read. Tie or otherwise secure the bag closed. **The Bureau of Ecosystem Health will supply the bags.** If necessary, food grade bags may be procured from a suitable vendor (e.g., grocery store). It is preferable to redundantly label each bag with a manila tag tied between the knot and the body of the bag. This tag should be labeled with the project name, collection location, tag number, collection date, and fish species. If scales are collected, the scale envelope should be labeled with

the same information.

F. Groups of fish, by species, are to be placed in one large plastic bag per sampling location. **The Bureau of Ecosystem Health will supply the larger bags.** Tie or otherwise secure the bag closed. Label the site bag with a manila tag tied between the knot and the body of the bag. The tag should contain: project, collection location, collection date, species and **tag number ranges**. Having this information on the manila tag enables lab staff to know what is in the bag without opening it.

G. Do not eviscerate, fillet or otherwise dissect the fish unless specifically asked to. If evisceration or dissection is specified, the fish must be cut along the exact midline or on the right side so that the left side fillet can be removed intact at the laboratory. If filleting is specified, the procedure for taking a standard fillet (SOP PREPLAB 4) must be followed, including removing scales.

H. Special procedures for PFAS: Unlike legacy contaminants such as PCBs, which are rarely found in day to day life, PFAS are widely used and frequently encountered. Practices that avoid sample contamination are therefore necessary. While no standard practices have been established for fish, procedures for water quality sampling can provide guidance. The following practices should be used for collections when fish are to be analyzed for PFAS:

No materials containing Teflon.
No Post-it notes.
No ice packs; only water ice or dry ice.
Any gloves worn must be powder free nitrile.
No Gore-Tex or similar materials (Gore-Tex is a PFC with PFOA used in its manufacture).
No stain repellent or waterproof treated clothing; these are likely to contain PFCs.
Avoid plastic materials, other than HDPE, including clipboards and waterproof notebooks.
Wash hands after handling any food containers or packages as these may contain PFCs.
Keep pre-wrapped food containers and wrappers isolated from fish handling.
Wear clothing washed at least six times since purchase.
Wear clothing washed without fabric softener.
Staff should avoid cosmetics, moisturizers, hand creams and similar products on the day of sampling as many of these products contain PFCs (Fujii et al. 2013). Sunscreen or insect repellent should not contain ingredients with “fluor” in their name. Apply any sunscreen or insect repellent well downwind from all materials. Hands must be washed after touching any of these products.

I. All fish must be kept at a temperature <45° F (<8° C) immediately following data processing. As soon as possible, freeze at -20° C ± 5° C. Due to occasional freezer failures, daily freezer temperature logs are required. The freezer should be locked or otherwise secured to maintain chain of custody.

J. In most cases, samples should be delivered to the Analytical Services Unit at the Hale Creek field station. Coordinate delivery with field station staff and send copies of the collection records, continuity of evidence forms and freezer temperature logs to the field station. For samples to be analyzed elsewhere, non-routine collections or other questions, contact Wayne Richter, Bureau of Ecosystem Health, NYSDEC, 625 Broadway, Albany, New York 12233-4756, 518-402-8974, or the project leader about sample transfer. Samples will then be directed to the analytical facility and personnel noted on specific project descriptions.

K. A recommended equipment list is at the end of this document.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name _____ DEC Region _____

Collections made by (include all crew) _____

Sampling Method: □Electrofishing □Gill netting □Trap netting □Trawling □Seining □Angling □Other _____

Preservation Method: □Freezing □Other _____ Notes (SWFDB survey number): _____

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH ( )	WEIGHT ( )	REMARKS

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHAIN OF CUSTODY

I, _____, of _____ collected the
(Print Name) (Print Business Address)

following on _____, 20____ from _____
(Date) (Water Body)

in the vicinity of _____
(Landmark, Village, Road, etc.)

Town of _____, in _____ County.

Item(s) _____

_____

Said sample(s) were in my possession and handled according to standard procedures provided to me prior to collection. The sample(s) were placed in the custody of a representative of the New York State Department of Environmental Conservation on _____, 20_____.

_____ _____
Signature Date

I, _____, received the above mentioned sample(s) on the date specified and assigned identification number(s) _____ to the sample(s). I have recorded pertinent data for the sample(s) on the attached collection records. The sample(s) remained in my custody until subsequently transferred, prepared or shipped at times and on dates as attested to below.

_____ _____
Signature Date

SECOND RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
THIRD RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
FOURTH RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
RECEIVED IN LABORATORY BY (Print Name)	TIME & DATE	REMARKS
SIGNATURE	UNIT	
LOGGED IN BY (Print Name)	TIME & DATE	ACCESSION NUMBERS
SIGNATURE	UNIT	

richter: revised 21 April 2014; becker: 23 March 2017, 26 April, 2019

NOTICE OF WARRANTY

By signature to the chain of custody (reverse), the signatory warrants that the information provided is truthful and accurate to the best of his/her ability. The signatory affirms that he/she is willing to testify to those facts provided and the circumstances surrounding the same. Nothing in this warranty or chain of custody negates responsibility nor liability of the signatories for the truthfulness and accuracy of the statements provided.

HANDLING INSTRUCTIONS

On day of collection, collector(s) name(s), address(es), date, geographic location of capture (attach a copy of topographic map or navigation chart), species, number kept of each species, and description of capture vicinity (proper noun, if possible) along with name of Town and County must be indicated on reverse.

Retain organisms in manila tagged plastic bags to avoid mixing capture locations. Note appropriate information on each bag tag.

Keep samples as cool as possible. Put on ice if fish cannot be frozen within 12 hours. If fish are held more than 24 hours without freezing, they will not be retained or analyzed.

Initial recipient (either DEC or designated agent) of samples from collector(s) is responsible for obtaining and recording information on the collection record forms which will accompany the chain of custody. This person will seal the container using packing tape and writing his signature, the time and the date across the tape onto the container with indelible marker. Any time a seal is broken, for whatever purpose, the incident must be recorded on the Chain of Custody (reason, time, and date) in the purpose of transfer block. Container then is resealed using new tape and rewriting signature, with time and date.

EQUIPMENT LIST

Scale or balance of appropriate capacity for the fish to be collected.

Fish measuring board.

Plastic bags of an appropriate size for the fish to be collected and for site bags.

Individually numbered metal tags for fish.

Manila tags to label bags.

Small envelops, approximately 2” x 3.5”, if fish scales are to be collected.

Knife for removing scales.

Chain of custody and fish collection forms.

Clipboard.

Pens or markers.

Paper towels.

Dish soap and brush.

Bucket.

Cooler.

Ice.

Duct tape.

Appendix G – PFAS Analyte List

Group	Chemical Name	Abbreviation	CAS Number
Perfluoroalkyl sulfonic acids	Perfluorobutanesulfonic acid	PFBS	375-73-5
	Perfluoropentanesulfonic acid	PFPeS	2706-91-4
	Perfluorohexanesulfonic acid	PFHxS	355-46-4
	Perfluoroheptanesulfonic acid	PFHpS	375-92-8
	Perfluorooctanesulfonic acid	PFOS	1763-23-1
	Perfluorononanesulfonic acid	PFNS	68259-12-1
	Perfluorodecanesulfonic acid	PFDS	335-77-3
	Perfluorododecanesulfonic acid	PFDoS	79780-39-5
Perfluoroalkyl carboxylic acids	Perfluorobutanoic acid	PFBA	375-22-4
	Perfluoropentanoic acid	PFPeA	2706-90-3
	Perfluorohexanoic acid	PFHxA	307-24-4
	Perfluoroheptanoic acid	PFHpA	375-85-9
	Perfluorooctanoic acid	PFOA	335-67-1
	Perfluorononanoic acid	PFNA	375-95-1
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUnA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTrDA	72629-94-8
	Perfluorotetradecanoic acid	PFTeDA	376-06-7
Per- and Polyfluoroether carboxylic acids	Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
	4,8-Dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
	Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
	Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
	Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
Fluorotelomer sulfonic acids	4:2 Fluorotelomer sulfonic acid	4:2-FTS	757124-72-4
	6:2 Fluorotelomer sulfonic acid	6:2-FTS	27619-97-2
	8:2 Fluorotelomer sulfonic acid	8:2-FTS	39108-34-4
Fluorotelomer carboxylic acids	3:3 Fluorotelomer carboxylic acid	3:3 FTCA	356-02-5
	5:3 Fluorotelomer carboxylic acid	5:3 FTCA	914637-49-3
	7:3 Fluorotelomer carboxylic acid	7:3 FTCA	812-70-4
Perfluorooctane sulfonamides	Perfluorooctane sulfonamide	PFOSA	754-91-6
	N-methylperfluorooctane sulfonamide	NMeFOSA	31506-32-8
	N-ethylperfluorooctane sulfonamide	NEtFOSA	4151-50-2
Perfluorooctane sulfonamidoacetic acids	N-methylperfluorooctane sulfonamidoacetic acid	N-MeFOSAA	2355-31-9
	N-ethylperfluorooctane sulfonamidoacetic acid	N-EtFOSAA	2991-50-6
Perfluorooctane sulfonamide ethanols	N-methylperfluorooctane sulfonamidoethanol	MeFOSE	24448-09-7
	N-ethylperfluorooctane sulfonamidoethanol	EtFOSE	1691-99-2

Group	Chemical Name	Abbreviation	CAS Number
Ether sulfonic acids	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major)	9Cl-PF3ONS	756426-58-1
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	11Cl-PF3OUdS	763051-92-9
	Perfluoro(2-ethoxyethane) sulfonic acid	PFEESA	113507-82-7

Appendix H - Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids

General

These guidelines are intended to be used for the validation of PFAS using EPA Method 1633 for projects within the Division of Environmental Remediation (DER). Data reviewers should understand the methodology and techniques utilized in the analysis. Consultation with the end user of the data may be necessary to assist in determining data usability based on the data quality objectives in the Quality Assurance Project Plan. A familiarity with the laboratory's Standard Operating Procedure may also be needed to fully evaluate the data. If you have any questions, please contact DER's Quality Assurance Officer, Dana Barbarossa, at dana.barbarossa@dec.ny.gov.

Preservation and Holding Time

Samples should be preserved with ice to a temperature of less than 6°C upon arrival at the lab. The holding time is 28 days to extraction for aqueous and solid samples. The time from extraction to analysis for aqueous samples is 28 days and 40 days for solids.

Temperature greatly exceeds 6ºC upon arrival at the lab*	Use professional judgement to qualify detects and non-detects as estimated or rejected
Holding time exceeding 28 days to extraction	Use professional judgement to qualify detects and non-detects as estimated or rejected if holding time is grossly exceeded

*Samples that are delivered to the lab immediately after sampling may not meet the thermal preservation guidelines. Samples are considered acceptable if they arrive on ice or an attempt to chill the samples is observed.

Initial Calibration

The initial calibration should contain a minimum of six standards for linear fit and six standards for a quadratic fit. The relative standard deviation (RSD) for a quadratic fit calibration should be less than 20%.

The low-level calibration standard should be within 50% - 150% of the true value, and the mid-level calibration standard within 70% - 130% of the true value.

%RSD >20%	J flag detects and UJ non detects

Continuing Calibration Verification

Continuing calibration verification (CCV) checks should be analyzed at a frequency of one per ten field samples. If CCV recovery is very low, where detection of the analyte could be in question, ensure a low level CCV was analyzed and use to determine data quality.

CCV recovery <70 or >130%	J flag results

Blanks

There should be no detections in the method blanks above the reporting limits. Equipment blanks, field blanks, rinse blanks etc. should be evaluated in the same manner as method blanks. Use the most contaminated blank to evaluate the sample results.

Blank Result	Sample Result	Qualification
Any detection	<Reporting limit	Qualify as ND at reporting limit
Any detection	>Reporting Limit and >10x the blank result	No qualification
>Reporting limit	>Reporting limit and <10x blank result	J+ biased high

Field Duplicates

A blind field duplicate should be collected at rate of one per twenty samples. The relative percent difference (RPD) should be less than 30% for analyte concentrations greater than two times the reporting limit. Use the higher result for final reporting.

RPD >30%	Apply J qualifier to parent sample

Lab Control Spike

Lab control spikes should be analyzed with each extraction batch or one for every twenty samples. In the absence of lab derived criteria, use 70% - 130% recovery criteria to evaluate the data.

Recovery <70% or >130% (lab derived criteria can also be used)	Apply J qualifier to detects and UJ qualifier to non detects

Matrix Spike/Matrix Spike Duplicate

One matrix spike and matrix spike duplicate should be collected at a rate of one per twenty samples. Use professional judgement to reject results based on out of control MS/MSD recoveries.

Recovery <70% or >130% (lab derived criteria can also be used)	Apply J qualifier to detects and UJ qualifier to non detects of parent sample only
RPD >30%	Apply J qualifier to detects and UJ qualifier to non detects of parent sample only

Extracted Internal Standards (Isotope Dilution Analytes)

Problematic analytes (e.g. PFBA, PFPeA, fluorotelomer sulfonates) can have wider recoveries without qualification. Qualify corresponding native compounds with a J flag if outside of the range.

Recovery <50% or >150%	Apply J qualifier
Recovery <25% or >150% for poor responding analytes	Apply J qualifier
Isotope Dilution Analyte (IDA) Recovery <10%	Reject results

Signal to Noise Ratio

The signal to noise ratio for the quantifier ion should be at least 3:1. If the ratio is less than 3:1, the peak is discernable from the baseline noise and symmetrical, the result can be reported. If the peak appears to be baseline noise and/or the shape is irregular, qualify the result as tentatively identified.

Reporting Limits

If project-specific reporting limits were not met, please indicate that in the report along with the reason (e.g. over dilution, dilution for non-target analytes, high sediment in aqueous samples).

Peak Integrations

Target analyte peaks should be integrated properly and consistently when compared to standards. Ensure branched isomer peaks are included for PFAS where standards are available. Inconsistencies should be brought to the attention of the laboratory or identified in the data review summary report.

APPENDIX C

Site Specific Health and Safety Plan

Site-specific Health and Safety Plan (HASP)

213 Meadow Street
Brooklyn, New York 11237

MTA Facilities Project Site #C224433

April 22, 2026

Prepared for:

Go Quay, LLC
c/o Gotham Organization, Inc.
111 Fifth Avenue, 9th Floor
Brooklyn, New York 10003

Prepared by:

Roux Environmental Engineering and Geology, D.P.C.
209 Shafter Street
Islandia, New York 11749

3084.0003Y102/CV

Environmental Consulting
& Management
+1.800.322.ROUX
rouxinc.com

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Site-Specific Emergency Information

Emergency Phone Numbers

Most emergency services can be obtained by calling 911. Where 911 service is not available, use the telephone numbers provided in the below table. The following is a master emergency phone list for use by the project management personnel. A more condensed version of the emergency numbers listed below will be posted throughout project work areas. Emergencies encountered on the site will be responded to by a combination of off-site emergency services and on-site personnel.

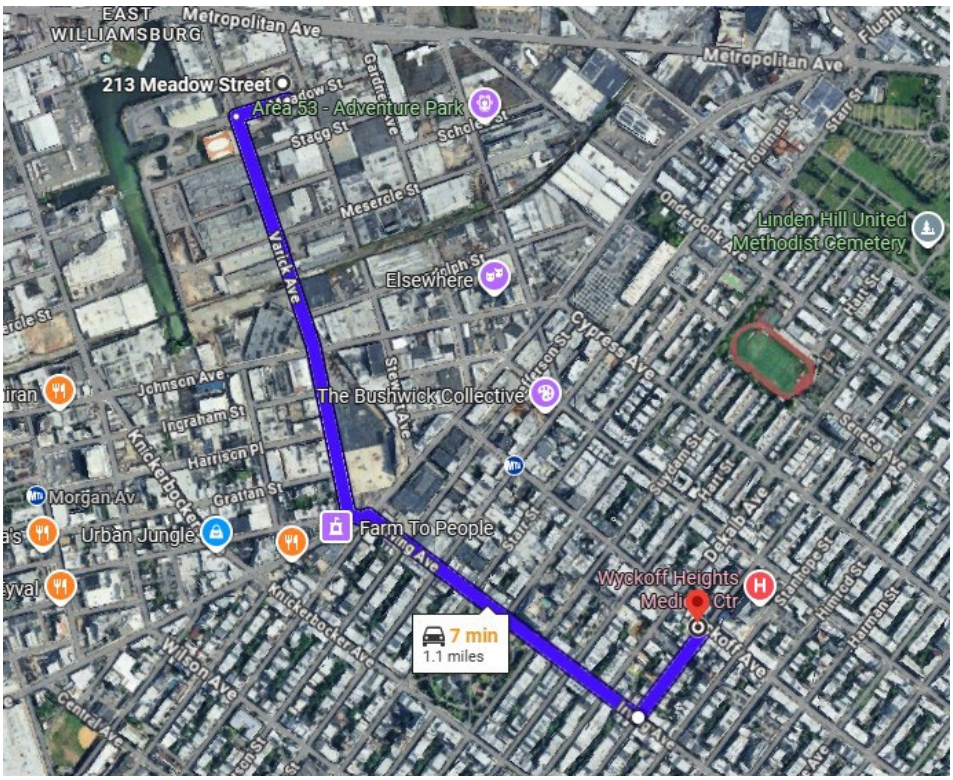
Emergency Contact Information			
Site Personnel			
Title	**Contact**		**Telephone**
Operations Manager (OM)	Jeffrey Wills		(516) 637-0213
Project Principal (PP)	Jessica Taylor		(631) 766-0607
Project Manager (PM)	Levi Curnutte		(727) 743-0304
Site Supervisor (SS)	TDB		TDB
Site Health and Site Safety Officer (SHSO)	TBD		TBD
Office Health and Safety Manager (OHSM)	Nevin Pahlad		(347) 885-6930
Corporate Health and Safety Director (CHSD)	Brian Hobbs, CIH, CSP		(631) 807-0193
WorkCare, Inc.	Occupational Health Care Management Provider		(888) 449-7787
Client Emergency Contact	Simeon Maleh		(646) 937-1655
Outside Assistance			
Agency	**Contact**	**Telephone**	**Address/Location**
Ambulance/emergency medical services (EMS)	Wyckoff Heights Medical Center Emergency Room	(718) 963-7391	346 Stanhope St Brooklyn, NY 11237
Police	New York City Police Department 83rd Precinct	(718) 574-1605	480 Knickerbocker Ave Brooklyn, NY 11237
Fire	FDNY Engine 237	(805) 458-1207	43 Morgan Ave Brooklyn, NY 11237
Site Address	213 Meadow Street, Brooklyn, New York		

Route to Hospital

Wyckoff Heights Medical Center

374 Stockholm St, Brooklyn, NY 11237

- Head towards Varick Ave
- Turn left onto Varick Ave
- Turn left onto Irving Ave
- Turn left onto Stockholm St
- Destination will be on the left

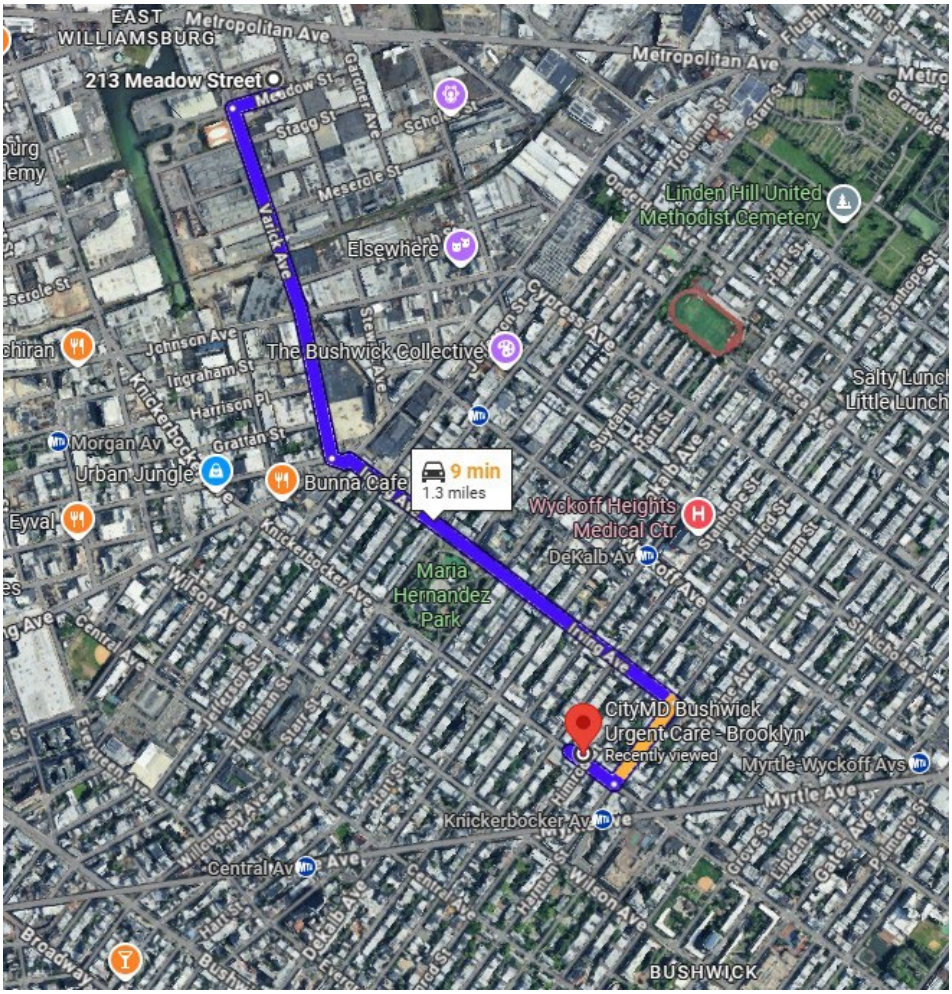


Route to Urgent Care Facility

CityMD Bushwick Urgent Care

399 Knickerbocker Ave, Brooklyn, NY 11237

- Turn left towards Varick Ave
- Turn left onto Irving Ave
- Turn right onto Harman St
- Turn right at the 1st cross street onto Knickerbocker Ave
- Destination will be on the right



1. Introduction

This Site-specific Health and Safety Plan (HASP) has been prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) for use during the Remedial Investigation, soil waste characterization sampling, excavation, and construction oversight activities being performed by Roux at the on behalf of GO Quay, LLC (Go Quay), located at 213 Meadow Street, Brooklyn, New York (Site; **Figure 1**). Go Quay entered into a Brownfield Cleanup Agreement (BCA), Index No. C224433-10-2025, with the New York State Department of Environmental Conservation (NYSDEC) as a Volunteer on March 22, 2026. This HASP was prepared in general accordance with the requirements of the Occupational Safety and Health Administration (OSHA) standards promulgated at 29 CFR 1910.120 and 29 CFR 1926.65, both commonly referred to as the Hazardous Waste Operations and Emergency Response (HAZWOPER) Standard. In accordance with the HAZWOPER Standard, this Site-specific HASP was prepared to address the safety and health hazards associated with the Remedial Investigation, soil waste characterization sampling, excavation, and construction oversight activities being performed at the Site by Roux and to provide requirements and procedures for the protection of Roux employees, subcontractor personnel, government oversight personnel, Site personnel, and the general public. It also addresses client- and Site-specific requirements for health and safety. Additionally, subcontractors may be required to submit their own HASP as it relates to their specific work activities and will be kept onsite during such work.

Implementation of this HASP is the joint responsibility of the Project Manager (PM), the Site Health and Safety Officer (SHSO), and all field staff, with assistance from the Project Principal (PP), Office Health and Safety Manager (OHSM), and Corporate Health and Safety Director (CHSD). The PM for this project is Levi Curnutte. The Site Supervisor (SS) is TBD and Site Health and Safety Officer (SHSO) is TDB.

This HASP will be introduced to, reviewed, and signed off on by all Roux personnel through a formal training session prior to commencing work. A copy of the HASP will be kept at the Site at all times. The Roux SHSO or PM will be responsible for posting any changes, amendments, memos, etc. to the HASP. Any revisions to this HASP will be signed by appropriate personnel, which can include Roux's PP, CHSD, and SS. Any changes will be announced to all workers at the next safety meeting.

1.1 Roles and Responsibilities

Overall Roles and Responsibilities (R&Rs) of Roux personnel are provided in Roux's Policies and Procedures Manual. Only those R&Rs specific to HASP requirements are listed below.

Project Manager (PM)

The PM has responsibility and authority to direct all work operations. The PM coordinates safety and health functions with the Site Health and Safety Officer (SHSO), has the authority to oversee and monitor the performance of the SHSO, and bears ultimate responsibility for the proper implementation of this HASP. The specific duties of the PM are:

- Preparing and coordinating the Site work plan;
- Providing Site supervisor(s) with work assignments and overseeing their performance; Coordinating safety and health efforts with the SSHO;
- Ensuring effective emergency response through coordination with the Emergency Response Coordinator (ERC); and
- Serving as primary Site liaison with public agencies and officials and Site contractors.

Site Health and Safety Officer (SHSO)

The SHSO has the full responsibility and authority to develop and implement this HASP and to verify compliance. The SHSO reports to the Project Manager. The SHSO is on Site or readily accessible to the Site during all work operations and has the authority to halt Site work if unsafe conditions are detected. The specific responsibilities of the SHSO include:

- Managing the safety and health functions on this Site;
- Serving as the Site's point of contact for safety and health matters;
- Ensuring Site monitoring, worker training, and effective selection and use of PPE;
- Assessing Site conditions for unsafe acts and conditions and providing corrective action;
- Assisting the preparation and review of this HASP;
- Maintaining effective safety and health records as described in this HASP; and
- Coordinating with the SS and others as necessary for safety and health efforts.

Site Supervisor (SS)

The Site Supervisor (SS) is responsible for field operations and reports to the Project Manager (PM). The SS ensures the implementation of the HASP requirements and procedures in the field. The specific responsibilities of the Site Supervisor include:

- Executing the work plan and schedule as detailed by the PM;
- Coordination with the SHSO on safety and health; and
- Ensuring Site work compliance with the requirements of this HASP.

Employees

All Roux employees are responsible for reading and following all provisions of the Corporate Health and Safety Manual, including this HASP. Employees report to the SS at the project Site. Each employee is also responsible for the following:

- Wearing all appropriate PPE as outlined within this HASP;
- Attending all safety meetings;
- Inspecting tools and equipment prior to use, and taking any defective tools or equipment out of service;
- Appropriately documenting field events as they occur within a logbook or equivalent;
- Properly operating machinery and/or equipment only if trained to do so;
- Stopping work operations if unsafe conditions exist;
- Identifying and mitigating hazards when observed;
- Reporting all incidents and near misses to the Roux SHSO and SS immediately; and
- Knowing where emergency equipment is located (e.g., first aid kit, fire extinguisher).

Subcontractors and Visitors

Subcontractors and visitors are responsible for complying with the same health and safety requirements. It is the responsibility of all to make sure subcontractors and visitors comply and uphold the HASP. Subcontractors and visitors have the following additional responsibilities:

- Designating a qualified safety representative for the project that can make the necessary changes in work practices, as necessary;
- Attending all safety meetings while participating in Roux Site work activities;
- Reporting all incidents and near misses to Roux SHSO and SS immediately;
- Conducting initial and periodic equipment inspections in accordance with manufacturer and regulatory guidelines; and
- Providing copies of all Safety Data Sheets (SDS) to Roux SHSO for materials brought to the Site.

2. Background

Relevant background information is provided below, including a general description of the Site; a brief review of the Site's history with respect to hazardous material use, handling, and/or storage; and a review of known and potential releases of hazardous substances at the Site.

2.1 Site Description

Property Location	
Property Address:	213 Meadow Street
Property Town, County, State:	Brooklyn, Kings County, New York
Property Tax Identification:	Block 2951; Lot 1 (formerly Lots 1, 5, and 45)
Property Topographic Quadrangle:	USGS-Brooklyn, New York
Nearest Intersection:	Ten Eyck Street and Varick Street to the northwest, Stewart Avenue and Meadow Street to the southeast, and Varick Avenue and Meadow Street to the southeast.
Site Description:	The Site encompasses an area of 1.29-acres and is paved with concrete and contains a one-story structure located on the eastern portion of the Site. The Site is occupied by Castle Sanitation for truck storage and repairs, a demolition business by Titan Industrial Services and Roma Scaffolding for scaffolding storage.

Property Information	
Property Acreage:	1.29 acres
Property Shape:	L-shaped
Improvements:	Small one-story structure at the southeast corner.

2.2 Site History

According to the previous environmental investigations, the Site was operated for oil truck parking, junk yards, and auto wrecking on the western portion of the Site as of 1965. In the early 1980s, the east side of former Lot 45 was used for truck parking, a repair shop, and storage and the west side of former Lot 45 was previously a temporary C&D transfer station from approximately 1985 until it was shut down around 1995. The current use of the Site is for truck storage and repairs and the Site's property listings in the City Directory Abstract consist of auto wrecking and demolition and salvage companies. Former Lot 1 was an auto wrecking junk yard and is now used for scaffolding storage. Former Lot 5 was previously known to be vacant and is now used for scaffolding storage.

2.3 Known and Potential Releases of Hazardous Substances at the Site

According to a Phase II Environmental Site Investigation (ESI) Report by Langan, a field investigation was performed at the Site in February 2022 and consisted of soil, groundwater, and soil vapor sampling. Results of the Phase II ESI identified semivolatile organic compounds (SVOCs) and metals in soil at concentrations above Industrial Use Soil Cleanup Objectives (IUSCOs) at intervals from 2 to 8 feet below land surface (ft bls). IUSCOs are the applicable regulatory standards for the planned Site redevelopment, which includes vehicle storage, maintenance, and repair with limited office space. The Phase II ESI also identified concentrations of volatile organic compounds (VOCs), SVOCs, and metals in groundwater in exceedance of Ambient Water Quality Standards and Guidance Values (AWQSGVs), and VOCs (cyclohexane and hexane) in soil vapor at concentrations above the lowest Sub-Slab Vapor Concentration on the New York State Department of Health (NYSDOH) Matrix

3. Scope of Work

This HASP will cover several tasks related to assisting GO Quay, LLC with several Brownfields Cleanup Program (BCP)-related and construction tasks:

- Installation of soil borings, monitoring wells and soil vapor sampling points via a direct-push method Geoprobe® drill rig and sampling;
- *In-situ* soil waste characterization sampling;
- Excavation and soil disposal oversight during remedial construction activities;
- Implementation of the Community Air Monitoring Plan (CAMP);
- Endpoint soil sampling; and
- General oversight of construction activities, including, but not limited to, vapor barrier/waterproofing application, sub-slab depressurization system (SSDS) installation and other remedial measures that have not been decided (e.g., groundwater injections, etc.)

If there are any changes with the scope a revision of the HASP will be required to address any new hazards.

4. Site Control

This Site control program is designed to reduce the spread of hazardous substances from contaminated areas to clean areas, to identify and isolate contaminated areas of the Site, to facilitate emergency evacuation and medical care, to prevent unauthorized entry to the Site, and to deter vandalism and theft.

4.1 Site Map

A map of this Site, showing Site boundaries, designated work zones, and points of entry and exit is provided in Figure 2.

4.2 Site Access

Access to the work areas at the Site is restricted to reduce the potential for exposure to its safety and health hazards. During hours of Site operation, Site entry and exit are authorized only at the points identified in Figure 2. Entry and exit at these points are controlled by the following: construction gates. When the Site is not operating, access to the Site is controlled by the following: locked construction gates.

4.3 Buddy System

This section is not applicable for all components of the SOW described in Section 3. Some Site inspections, sampling and oversight are completed by a single Roux employee. However, when completing these tasks, the single Roux employee is accompanied either by Roux subcontractors or the Site caretaker/other representatives from GO Quay. Any time Roux is on-site, GO Quay, LLC is made aware and communications with GO Quay and the Roux PM is maintained via cellular phone.

While working in the Exclusion Zone, Site workers use the buddy system. The buddy system means that personnel work in pairs and stay in close visual contact to be able to observe one another and summon rapid assistance in case of an emergency. The responsibilities of workers using the buddy system include:

- Remaining in close visual contact with partner;
- Providing partner with assistance as needed or requested;
- Observing partner for signs of heat stress, chemical overexposure or other difficulties;
- Periodically checking the integrity of partner's PPE; and
- Notifying the SS or other Site personnel if emergency assistance is needed.

4.4 Site Communications

The following communication equipment is used to support on-site communication: cellphones and visual hand signals.

As applicable, hand signals will be used according to the following:

Hand Signals

SIGNAL	MEANING
Hand gripping throat	Out of air; I cannot breathe

Hand Signals

SIGNAL	MEANING
Grip partner's wrist	Leave area immediately
Hands on top of head	Need assistance
Thumbs up	I am all right; okay
Thumbs down	No; negative

A current list of emergency contact numbers is included in the Site-Specific Emergency Information at the beginning of this HASP

4.5 Site Work Zones

This Site is divided into three (3) major zones, described below. These zones are characterized by the likely presence or absence of biological, chemical, or physical hazards and the activities performed within them. Zone boundaries are clearly marked at all times and the flow of personnel among the zones is controlled. The Site is monitored for changing conditions that may warrant adjustment of zone boundaries. Zone boundaries are adjusted as necessary to protect personnel and clean areas. Whenever boundaries are adjusted, zone markings are also changed and workers are immediately notified of the change.

Exclusion Zone

The area where contamination exists is the Exclusion Zone (EZ). All areas where excavation and handling of contaminated materials take place are considered part of the EZ. This zone will be clearly delineated by chain link fencing, caution tape, cones or other effective barriers, as necessary. Safety tape may be used as a secondary delineation within the EZ. The zone delineation markings may be opened in areas for varying lengths of time to accommodate equipment operation or specific construction activities. The SHSO may establish more than one EZ where different levels of protection may be employed or where different hazards exist. Personnel are not allowed in the EZ without:

- A buddy (co-worker);
- Required minimum level PPE;
- Medical authorization;
- Training certification; and
- Requirement to be in the zone.

Contamination Reduction Zone

A Contamination Reduction Zone (CRZ) is established between the exclusion zone and the support zone. The CRZ contains the Contamination Reduction Corridor (CRC) and provides an area for decontamination of personnel and equipment. The CRZ will be used for general Site entry and egress in addition to access for heavy equipment and emergency support services. Personnel are not allowed in the CRZ without:

- A buddy (co-worker);
- Appropriate PPE;
- Medical authorization;

- Training certification; and
- Requirement to be in the zone.

Support Zone

The Support Zone (SZ) is an uncontaminated area that will be the field support area for the Site operations. The SZ will contain the if required, temporary project trailers and provides for field team communications and staging for emergency response. Appropriate sanitary facilities and safety equipment will be located in this zone. Potentially contaminated personnel or materials are not allowed in this zone. The only exception will be appropriately packaged/decontaminated and labeled samples.

5. Job Hazard Evaluation

Roux's work at the Site is expected to entail a variety of physical, chemical, and biological hazards, all of which must be sufficiently managed to allow the work to be performed safely. Some of the hazards are Site-specific (i.e., they are associated with the nature, physical characteristics, and/or routine operation of the Site itself), while others are activity-specific (i.e., they are associated with [or arise from] the particular activity being performed). The various hazards can be grouped into the following categories:

- **Caught/Crushed** – the potential to become caught in, under, between, or by an object or parts of an object, such as equipment with parts that open and close or move up and down ("pinch points") or equipment that rotates, and the accompanying potential to have body parts cut, mangled, or crushed thereby.
- **Contact** – the potential to be struck by or against moving or stationary objects that can cause physical injury, such as heavy machinery, overhead piping, moving vehicles, falling objects, and equipment (including tools and hand-held equipment) or infrastructure with the ability to cut or impale.
- **Energy Sources** – the potential for bodily harm associated with energy sources, most notably electricity, but also including latent energy sources such as compressed air and equipment under tension (which when released could cause injurious contact or a fall).
- **Ergonomics** – the potential for musculoskeletal injury associated with lifting/carrying, pushing/pulling, bending, reaching, and other physical activity attributable to poor body position/mechanics, repetitive motion, and/or vibration.
- **Exposure** – the potential for injury/illness due to physical, chemical, or biological exposures in the work environment, including, but not limited to, temperature extremes, solar radiation, and noise (physical), chemical splashes and hazardous atmospheres (chemical), and animal/insect bites and poisonous plants (biological).
- **Falls** – the potential to slip or trip and thus fall or drop a load, resulting in bodily injury to oneself or others.

The foregoing is intended to provide Roux employees with a general awareness of the hazards involved with Site work. A more detailed review of the potential hazards associated with each specific activity planned for the Site (or on-going activity, as the case may be) is provided in the activity-specific Job Safety Analysis (JSA) forms in **Appendix A**. As can be seen in the JSA forms, the hazards are identified by category per the above, and specific measures designed to mitigate/manage those hazards are also identified. In preparing the JSA forms, all categories of hazards were considered, and all anticipated potential hazards were identified to the extent possible based on the experience of the personnel preparing and reviewing the JSA forms. However, there is always the possibility for an unanticipated hazard to arise, potentially as condition change over the course of the workday. Roux personnel must maintain a continual awareness of potential hazards in the work zone, regardless of whether the hazard is identified in the JSA form. Particular attention should be paid to hazards associated with exposure to hazardous substances (see **Table 1** for a listing of the hazardous substances most likely to be encountered in environmental media at the Site) and to Site personnel being located "in the line of fire" with respect to moving equipment, pinch points, and latent energy (e.g., being located or having body parts located within the swing radius of an excavator, between two sections of pipe being connected, below a piece of suspended equipment, or adjacent to a compressed air line).

5.1 Hazard Communication and Overall Site Information Program

The information in the JSAs and SDSs is made available to all employees and subcontractors who could be affected by it prior to the time they begin their work activities.

Modifications to JSAs are communicated during routine pre-work briefings, and periodically updated as needed in the HASP. SDSs will be maintained by the SHSO/SS for new chemicals brought on-site as needed. Copies of SDSs can be found in **Appendix B**.

5.2 Noise

Noise is associated with the operation of heavy equipment, power tools, pumps, and generators. Noise is also a potential hazard when working near operating equipment such as excavators, drill rigs or pole drivers. High noise (i.e., < 85 dBA) operations may be evaluated by the SHSO utilizing a type 2 handheld sound level meter (SLM) operating on the "A"-weighted scale with slow response because this scale most closely resembles human response to noise and complies with OSHA 29 CFR 1910.95. Hearing protection is required in areas with noise exposure greater than 85 dBA. Double hearing protection (ear plugs and earmuffs) should be donned in areas where the noise exposure is more than 95 dBA. Noise exposure will be controlled by hearing protection as described above or by maintaining set-backs from high-noise equipment, as warranted. Personnel handling heavy equipment and using power tools that produce noise levels exceeding those described levels above are required by OSHA 29 CFR 1910.95 to wear the appropriate Noise Reduction Rating (NRR) level of hearing protection. Appropriate hearing protection will be evaluated by the SHSO as necessary in consultation with the OHSM and CHSD.

5.3 Slip, Trip, and Fall Hazards

Slip, trip, and fall hazards may include, but are not limited to, general slip and trip hazards associated with uneven ground, possible debris, wet grass, and equipment. Prior to work, walking paths will be assessed for solid footings, any ground penetrations that may cause a tripping hazard will be appropriately marked, and other areas will be noted and discussed with the field team.

Personnel shall be aware of their surroundings and footings at all time, and all accommodations should be made for proper housekeeping and organized equipment placement at the Site, where possible, to help prevent any slip, trip, and fall-related incidents. All tools and materials should be appropriately stored when not in use and placed in appropriate storage containers.

5.4 Biological Hazards

Biological hazards that may potentially be present at a Site, include poisonous plants, insects (ticks, spiders, bees), animals (snakes, dogs), etc. Information on biological hazards can be found within Roux's Biological Hazard Awareness Management Program located within Roux's Corporate Health and Safety Manual. There is also potential for transmission and/or exposure to SARS-CoV-2, the virus that causes COVID-19. Prior to beginning work, on-Site protocols shall be established by the project team, including subcontractors, in accordance with federal, state, county, city, and/or other guidance, as applicable.

6. Emergency Response Plan

This emergency response plan details actions to be taken in the event of Site emergencies. The PM and SHSO is responsible for the implementation of emergency response procedures onsite. The SHSO/PM provides specific direction for emergency action based upon information available regarding the incident and response capabilities and initiates emergency procedures and notification of appropriate authorities. In the event of an emergency, Site personnel are evacuated and do not participate in emergency response activities, response is facilitated through external emergency services.

6.1 Emergency Response

The SHSO, after investigating the incident and relevant information, shall determine the level of response required for containment, rescue and medical care. Limited on-site emergency response activities could occur therefore the SHSO is responsible for notifying external emergency response agencies. The SHSO provides relevant information to the responding organizations, including, but not limited to, the hazards associated with the emergency incident, potential containment problems, and missing Site personnel.

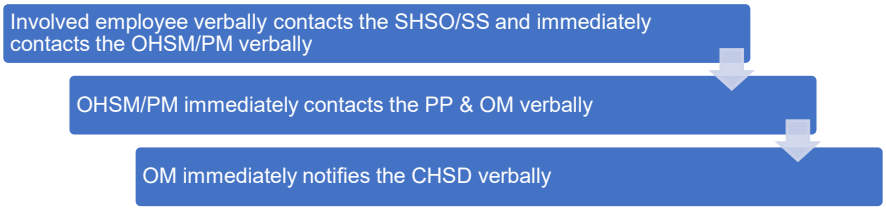
6.2 Emergency Alerting and Evacuation

If evacuation notice is given, Site workers leave the worksite, if possible, by way of the nearest exit. Appropriate primary and alternate evacuation routes and assembly areas have been identified and are shown on the Site Plan with Emergency Muster Area (**Figure 2**). The routes and assembly area will be determined by conditions at the time of the evacuation based on wind direction, the location of the hazard source, and other factors as determined by SHSO/PM.

Personnel exiting the Site gather at a designated assembly point. To determine that everyone has successfully exited the Site, personnel will be accounted for at the assembly point. If any worker cannot be accounted for, notification is given to the SHSO, PM, and any arriving response authorities so that appropriate action can be initiated. Subcontractors on this Site have coordinated their emergency response plans to ensure that these plans are compatible and potential emergencies are recognized, alarm systems are clearly understood, and evacuation routes are accessible to all personnel relying upon them.

6.3 Emergency Medical Treatment and First Aid

In the event of a work-related injury or illness, employees are required to follow the procedures outlined below. All work-place injury and illness situations require Roux's Project and Corporate Management Team to be notified when an injury/illness incident occurs, and communication with the contracted Occupational Health Care Management Provider, WorkCare, Inc., is initiated, as necessary. The Injury/Illness Notification Flowchart is provided below and within Roux's Incident Investigation and Reporting program included within Roux's Corporate Health and Safety Manual.



If on-Site personnel require any medical treatment, the following steps will be taken:

a. Notify Roux's Project and Corporate Management Team for any work-related injury and/or illness occurrence, and communicate with the contracted Occupational Health Care Management Provider, WorkCare, immediately following the notifications provided above.

b. Based on discussions with the Project Team, Corporate Management and the WorkCare evaluation, if medical attention beyond onsite first aid is warranted, transport the injured / ill person (IP) to the Urgent Care Center, or notify the Fire Department or Ambulance Emergency service and request an ambulance or transport the victim to the hospital, and continue communications with Corporate Management Team. An Urgent Care/Hospital Route map with location to CityMD Bushwick Urgent Care/ Wyckoff Heights Medical Center is included as **Figure 3**.

c. Decontaminate to the extent possible prior to administration of first aid or movement to medical or emergency facilities.

d. First aid medical support will be provided by onsite personnel trained and certified in First Aid, Cardio Pulmonary Resuscitation (CPR), Automatic External Defibrillation (AED), and Blood-Borne Pathogens (BBP) Awareness, until relieved by emergency medical services (EMS).

e. The SHSO and PM will perform a Loss Investigation (LI) and the Project Team will complete the final Loss Report. If a Roux employee is involved in a vehicular incident, the employee must also complete the Acord Automobile Loss Notice.

7. Environmental Conditions and Response

7.1 Adverse Weather Conditions

In the event of adverse weather conditions, the SHSO or project principal will determine if work can continue without jeopardizing the health and safety of field workers. Some of the items related to adverse weather conditions to be considered prior to determining if work should continue include:

- Potential for heat stress and heat-related injuries;
- Potential for cold stress and cold-related injuries;
- Treacherous weather-related conditions. If wind speed is greater than 15 mph averaged over a 15-minute period or wind gusts over 25 mph, earthmoving operations will be ceased
- Limited visibility; and
- Electrical storm potential.

Site activities will be limited to daylight hours and acceptable weather conditions. Inclement working conditions may include heavy rain, fog, high winds, and lightning. The SHSO and/or PM shall observe daily weather reports and evacuate, if necessary, in case of inclement weather conditions.

7.2 Electrical Storm Guidelines

In the event that lightning and/or thunder are observed while working onsite, all onsite activities shall stop and personnel shall seek proper shelter (e.g., substantial building, enclosed vehicle, etc.). Work shall not resume until the threat of lighting has subsided and no lightning or thunder has been observed for 30 minutes. If the possibility of lightning is forecast for the day, advise the onsite personnel on the risks and proper procedure at the pre-work safety briefing. Continuously monitor for changing weather conditions and allow enough time to properly stop work if lightning is forecast.

7.3 Environmental Stressors, Heat Stress, Heat Exhaustion, and Heat Stroke

It is the employer's responsibility to monitor weather forecasts and ambient air temperatures, both prior to the work shift and during the shift. The National Oceanic and Atmospheric Administration records average minimum/maximum temperatures of 28°F / 84°F degrees Fahrenheit during the year in Brooklyn, New York.

To prevent potential heat illness, the following strategies will be implemented:

- Adjusting personnel work/rest intervals;
- Monitoring for symptoms of heat illness;
- Providing shaded rest areas;
- Providing cool potable water so that each employee has access to at least one quart per hour for the entire shift, free of charge;
- Allowing for employees to acclimatize to the weather conditions and work demands;
- Observe workers during a heat wave (i.e., when the temperature is at least 80oF, and 10 degrees hotter than the average temperature of the five preceding days); and
- Implementing high heat procedures when the temperature reaches 95oF.

Roux's Heat Illness Prevention Plan is implemented when the when ambient temperatures exceed 80oF. Roux's Heat Illness Prevention Program can be found within **Appendix C**. Additional information regarding heat illnesses is provided below. This can include, but is not limited to, access to shade that is sufficient in size to fit all workers who are on break; a car with air conditioning is acceptable, too. Preventative cool-down breaks shall be allowed at any time, and anyone taking such a break will be monitored for heat illness symptoms and not required to return to work until all symptoms (if present) of heat illness have disappeared. If necessary, first aid will be offered, but if symptoms are severe, emergency response procedures will be implemented per Section 6.3. Anyone who has shown symptoms of severe heat illness will not be sent home without being offered first aid or medical treatment.

High heat procedures must be implemented when temperatures reach 95oF. These procedures include:

- Ensuring that effective communication by voice, observation, or electronic means is maintained so that employees at the work site can contact a supervisor when necessary. An electronic device, such as a cell phone or text messaging device, may be used for this purpose only if the reception in the area is reliable.
- Observing employees for alertness and signs or symptoms of heat illness. The employer shall ensure effective employee observation/monitoring by implementing one or more of the following:
    - Supervisor or designee observation of 20 or fewer employees;
    - Mandatory buddy system; and
    - Regular communication with sole employee such as by radio or cellular phone, or other effective means of observation.
- Designating one or more employees on each worksite as authorized to call for emergency medical services and allowing other employees to call for emergency services when no designated employee is available.
- Encouraging employees throughout the work shift to drink plenty of water.
- A review of the high heat procedures during the daily tailgate meeting and remind employees of their right to take a cool-down rest when necessary.

7.3.1 Heat Stress

Heat stress is the body's response to excessive heat and can be a significant potential hazard. The risk of heat stress can be increased with heavy physical activity and/or the use of personal protective equipment in hot, humid weather environments. There are also personal risk factors that can contribute to the risk of suffering from heat stress, such as obesity, water intake, alcohol and caffeine consumption, pregnancy, age, medication, etc. Heat illness includes heat cramps, heat exhaustion, heat syncope, and heat stroke.

7.3.2 Heat Cramps

Heat cramps may be brought on by prolonged exposure to heat. As an individual sweats, water and salts are lost by the body resulting in painful muscle cramps, typically in the legs.

First aid treatment includes, but is not limited to, shade, rest, and fluid replacement. Typically, the individual should recover within one-half hour while being monitored constantly. If the individual has not improved substantially within 30 minutes and the body temperature has not decreased, the individual should be transported to a hospital for medical attention.

Per Roux's Heat Illness Prevention Plan, employees shall have access to potable drinking water that is fresh, pure, suitably cool, free of charge and in sufficient quantities. Access to shade shall be present when temperatures exceed 80 degrees Fahrenheit and shall be available when temperatures do not exceed 80 degrees Fahrenheit.

7.3.3 Heat Exhaustion

Heat exhaustion may occur in an individual who has been exposed to excessive heat while working or exercising. The circulatory system of the individual fails as blood collects near the skin to rid the body of excess heat through transference. The signs and symptoms of heat exhaustion are as follows:

- Rapid and shallow breathing;
- Weak pulse;
- Cold and clammy skin with heavy perspiration;
- Skin appears pale;
- Fatigue and weakness;
- Dizziness; and
- Elevated body temperature.

First aid treatment includes, but is not limited to, cooling the victim, elevating the feet, and replacing fluids.

If the individual is not substantially improved within 30 minutes and the body temperature has not decreased, the individual should be transported to the hospital for medical attention.

7.3.4 Heat Stroke

Heat stroke occurs when an individual is exposed to excessive heat and stops sweating. This condition is classified as a MEDICAL EMERGENCY requiring immediate cooling of the victim and transport to a medical facility. The signs and symptoms of heat stroke are as follows:

- Dry, hot, red skin;
- Body temperature approaching or above 105oF;
- Confusion, altered mental state, slurred speech;
- Seizures;
- Large (dilated) pupils; and
- Loss of consciousness – the individual may go into a coma.

First aid treatment requires immediate cooling and transportation to a medical facility. Heat stress is a significant hazard if any type of protective equipment (semi-permeable or impermeable) that prevents evaporative cooling when worn in hot weather environments.

7.4 Cold Stress

Cold stress is a danger at low temperatures and when the wind-chill factor is low. Prevention of cold-related illnesses is a function of whole-body protection. Adequate insulating clothing must be used when the air temperature is below 60°F. A work/rest regimen will be initiated when ambient temperatures and protective

clothing cause a stressful situation. In addition, reduced work periods followed by rest in a warm area may be necessary in extreme conditions. The signs and symptoms of cold stress include the following:

- Severe shivering;
- Abnormal behavior;
- Slowing;
- Weakness;
- Stumbling or repeated falling;
- Inability to walk;
- Collapse; and/or
- Unconsciousness.

First aid requires removing the victim from the cold environment and seeking medical attention immediately. Also, prevent further body heat loss by covering the victim lightly with blankets. Do not cover the victim's face. If the victim is still conscious, administer hot drinks and encourage activity such as walking, wrapped in a blanket.

8. Safety Procedures

This section of the HASP presents the specific safety procedures to be implemented during Roux's activities at the Site in order to protect the health and safety of various on-site personnel. Minimum OSHA-mandated procedures are presented first, followed by client- and Site-specific procedures. Lastly, activity-specific procedures are discussed. These Site and activity-specific procedures supplement the general safety procedures included in Roux's Corporate Health and Safety Manual, which also must be followed in their entirely.

8.1 Training

At a minimum, Site personnel who will perform work in areas where there exists the potential for toxic exposure will be health and safety-trained prior to performing work onsite per OSHA 29 CFR 1910.120(e) and 29 CFR 1926.65(e). More specifically, all Roux, subcontractor, and other personnel engaged in sampling and remedial activities at the Site and who are exposed or potentially exposed to hazardous substances, health hazards, or safety hazards must have received at a minimum the 40 hour initial HAZWOPER training consistent with the requirements of 29CFR 1910.120(e)(3)(i) training and a minimum of 3 days' actual field experience under the direct supervision of a trained experienced supervisor, plus 8 hours of refresher training on an annual basis. Depending on tasks performed, less training may be permitted. Evidence of such training must be maintained at the Site at all times. Furthermore, all on-Site management and supervisory personnel directly responsible for or who supervise the employees engaged in Site remedial operations, must have received an additional 8 hours of specialized training at the time of job assignment on topics including, but not limited to, the employer's safety and health program and the associated employee training program, personal protective equipment program, spill containment program, and health hazard monitoring procedure and techniques, plus 8 hours of refresher training on an annual basis. Additionally, all workers who will be required to don a respirator will be properly trained on their employer's Respiratory Protection Program, which also includes being medically cleared to wear a respirator and passed a fit test, at least initially prior to use, and then annually thereafter in accordance with 29 CFR 1910.134, Respiratory Protection.

Roux personnel training records are maintained in a corporate database with records available upon request from either the OHSM/SHSO/CHSD or Human Resources Department.

8.2 Site-Specific Safety Briefings for Visitors

A site-specific briefing is provided to all site visitors who enter this site beyond the site entry point. For visitors, the site-specific briefing provides information about site hazards, the site lay-out including work zones and places of refuge, the emergency alarm system and emergency evacuation procedures, and other pertinent safety and health requirements as appropriate.

8.3 HASP Information and Site-Specific Briefings for Workers

Site personnel review this HASP and are provided a Site-specific tailgate briefing prior to the commencement of work to ensure employees are familiar with this HASP and the information and requirements it contains, as well as the relevant JSAs included in **Appendix A**. Additional briefings are provided as necessary to notify employees of any changes to this HASP as a result of information gathered during on-going Site characterization and analysis of changing conditions. Conditions for which we

schedule additional briefings include, but are not limited to: changes in site conditions, changes in the work schedule/plan, newly discovered hazards, and incidents occurring during Site work.

8.4 Medical Surveillance

The medical surveillance section of the Health and Safety Plan describes how worker health status is monitored at this site. Medical surveillance is used when there is the potential for worker exposure to hazardous substance at levels above OSHA Permissible Exposure Limits (PEL) or other published limits. The purpose of a medical surveillance program is to medically monitor worker health to ensure that personnel are not adversely affected by site hazards. The provisions for medical surveillance at this site are based on the site characterization and job hazard analysis found in Section 4 of this HASP and are consistent with OSHA requirements in 29 CFR 1910.120(f) as applicable.

8.4.1 Site Medical Surveillance Program

Medical surveillance requirements are based on a worker's potential for exposure as determined by the site characterization and job hazard analysis documented in Section 4 and JSAs within **Appendix A** of this HASP and in compliance with the requirements of 29 CFR 1910.120(f)(2). Based on site information and use of direct reading instruments, limited use of respirators (less than 30 days per year), and the absence of an employee-staffed HAZMAT team, a limited medical surveillance program is required and implemented at this site. The medical surveillance program provides that:

1. Workers assigned to tasks requiring the use of respirators receive medical examinations in accordance with 29 CFR 1910.134(e) to ensure they are physically capable to perform the work and use the equipment, and
2. If a worker is injured, becomes ill, or develops signs or symptoms of possible over-exposure to hazardous substance or health hazards, medical examinations are provided to that worker as soon as possible after the occurrence and as required by the attending physician.
3. These medical examinations and procedures are performed by or under the supervision of a licensed physician and are provided to workers free of cost, without loss of pay, and at a reasonable time and place. In addition, the need to implement a more comprehensive medical surveillance program will be re-evaluated after any apparent over-exposure.

8.4.2 Medical Recordkeeping Procedures

Medical recordkeeping procedures are consistent with the requirements of 29 CFR 1910.1020 and are described in the company's overall safety and health program. A copy of that program is available at our Islandia, New York office.

The following items are maintained in worker medical records:

- Respirator fit test and selection;
- Physician's medical opinion of fitness for duty (pre-placement, periodic, termination);
- Physician's medical opinion of fitness for respirator protection (pre-placement, periodic); and
- Exposure monitoring results.

8.4.3 Program Review

The medical program is reviewed to ensure its effectiveness. The Corporate Health and Safety Manager, in coordination with the Human Resources Director, is responsible for this review. At minimum, this review consists of:

- Review of accident and injury records and medical records to determine whether the causes of accidents and illness were promptly investigated and whether corrective measures were taken wherever possible;
- Evaluation of the appropriateness of required medical tests based on site exposures; and
- Review of emergency treatment procedures and emergency contacts list to ensure they were site specific, effective, and current.

8.5 Personnel Protection

Site safety and health hazards are eliminated or reduced to the greatest extent possible through engineering controls and work practices. Where hazards are still present, a combination of engineering controls, work practices and PPE are used to protect employees. Appropriate personal protective equipment (PPE) shall be worn by Site personnel when there is a potential exposure to chemical, biological or physical hazards (e.g., falling objects, flying particles, sharp edges, electricity, and noise), as determined by the SHSO. The level of personal protection, type and kind of equipment selected will depend on the hazardous conditions and in some cases cost, availability, compatibility with other equipment, and performance. An accurate assessment of all these factors will be made before work can be safely executed.

Roux maintains a comprehensive written PPE program that addresses proper PPE selection, use, maintenance, storage, fit and inspection. Roux's PPE program can be found within **Appendix D**. PPE to be used at the Site will meet the appropriate American National Standards Institute (ANSI) standards and the following OSHA (General/Construction Industry) standards for minimum PPE requirements.

The minimum level of PPE for entry onto the Site is Level D. The following equipment shall be worn:

- Work uniform (long pants, sleeved shirt);
- Hard hat;
- Steel or composite toe work boots (must comply with American Society for Testing and Materials [ASTM]) F 2412-05, Standard Test Methods for Foot Protection and ASTM F 2413-05, Standard Specification for Performance Requirements for Foot Protection);
- Safety Glasses (must comply with one of the following ANSI/ISEA Z87.1-2010, ANSI Z87.1-2003, ANSI Z87.1-2003);
- Boot Covers (as needed);
- Hearing protection (as needed);
- High visibility clothing (shirt/vest); and
- Hand protection (e.g., minimum cut resistance meeting ANSI 105-2000 Level 2).

Note that jewelry shall be removed or appropriately secured to prevent it from becoming caught in rotating equipment or unexpectedly snagged on a fixed object (e.g., wrist watches, bracelets, rings, chains and necklaces, open earrings). Do not wear loose clothing and all shoulder-length hair should be tied back.

Site specific PPE ensembles and materials are identified within task specific JSAs located within **Appendix A**, and any upgrades or downgrades of the level of protection (i.e., not specified in the JSA) must be approved by the PP and immediately communicated to all Roux personnel and subcontractors as applicable. PPE is used in accordance with manufacturer's recommendations.

8.5.1 Hearing Conservation

Hearing protection is made available when noise exposures equal or exceed an 8-hour time-weighted average sound level of 85 dBA. Hearing protection is required when the 8-hour time weighted average sound level > 85 dBA, or when noise levels exceed 140 dBA at any point or exceeds 115 dBA for at least 15 minutes. Where noise exposure meets or exceeds this level, noise is listed as a physical hazard in the JSA for the tasks/operation, and hearing protection is included as one of the control measures (PPE).

8.6 Monitoring

An air monitoring program is important to the safety of on- and off-Site personnel, and the surrounding area. A preliminary survey, to establish background conditions in the immediate sampling area, may be made prior to the initiation of Site work including, but not limited to, monitoring wind direction (e.g., wind socks) and approximate temperature during all invasive Site activities. This survey will be conducted with the appropriate pre-calibrated air monitoring instrument(s), as warranted by the field activity. Once this survey has been complete, any changes in the type of PPE will be determined and relayed to those working on Site.

Work zone air monitoring will be performed to verify that the proper level of PPE is used, and to determine if increased protection or work stoppage is required. The following equipment shall be used to monitor conditions:

- A Photoionization Detector (PID) with a lamp energy of 10.6 eV will be used to provide direct readings of organic vapor concentrations during intrusive activities to determine that personnel protection is adequate. Concentrations shall be recorded during intrusive activities with the potential to encounter contaminant vapors.

Personal exposure monitoring utilizing activated charcoal tubes may be considered based on whether or not the area sample results are at or above half of the PEL. The decision to perform the monitoring will be made by, and under the control of, the CHSD.

Below are monitoring action levels for Site-specific chemicals of concern. In the event PID readings above the thresholds identified below are sustained for 5 minutes in the breathing zone, worker protection will require upgrading following notification to the OHSM and applicable parties.

8.6.1 Action Levels for Air Monitoring

PPE can remain at Level D if breathing zone VOC concentrations are less than 5 ppm and benzene is non detect. Personnel are required to evacuate the Site when breathing zone VOC readings exceed 25 ppm.

The following tables include summaries of the air monitoring, work practices, and action levels for the expected contaminants. The action levels to initiate testing with colorimetric tubes for airborne volatiles is 1 ppm (PID reading) and is based on the Permissible Exposure Limit (PEL) for benzene (1 ppm). The colorimetric tubes are used to confirm the presence or absence of specific constituents, and they do not provide a measured concentration.

PPE can remain at Level D if breathing zone VOC concentrations are less than 5 ppm, is non-detect. Personnel are required to evacuate the Site when breathing zone VOC readings exceed 25 ppm.

The following tables include summaries of the air monitoring, work practices, and action levels for the expected contaminants.

Air Monitoring Summary and Action Levels Organic Vapors	
PID Reading in Breathing Zone (ppm)	**Action**
0-1 ppm above background	Continue monitoring
>1-5 ppm sustained 60 seconds	Continue monitoring
<5 ppm	Continue Monitoring, ventilate space
≥ 5 ppm - ≤ 25 ppm	Ventilate space until PID reads < 5 ppm. If < 5 ppm cannot be achieved, upgrade to Level C[1].
≥ 25 ppm	Ventilate space and evacuate area. Consult with CHSD.

Background concentrations should be established at the beginning of each work day. It may be necessary to re-establish background concentrations and ambient conditions vary through the day.

1 Measured air concentrations of known organic vapors will be reduced by the respirator to one half of the PEL or lower, and the individual and combined compound concentrations shall be within the service limit of the respirator cartridge.

8.6.2 Explosive Hazard

Methane is a common gas constituent that is generated during the decomposition of organics. Methane, a non-toxic compound, does not have an OSHA PEL or other exposure limits based on toxicity; however, methane is explosive under certain conditions. The Lower Explosive Limit (LEL) for methane is 5% in air, or 50,000 parts per million by volume. At high concentrations, methane can also displace oxygen and cause asphyxiation. Since methane is lighter than air, it does not tend to accumulate in low-lying areas and will rapidly mix with atmospheric air if encountered during drilling activities. Methane concentrations will be continuously monitored using a pre-calibrated gas meter while excavation takes place.

8.6.3 Air Monitoring Equipment and Calibration

A PID calibrated to an appropriate calibration mixture will be used to detect organic vapors in and around the work areas. Monitoring will be conducted in and around all work areas and at the workers breathing zone before activities commence to establish a background level, then at 15-minute intervals throughout the day. All equipment will be calibrated according to the manufacturer's recommendation. A calibration log will be maintained and will include the name of the person who performed the calibration, the date and time calibrated, and the instrument reading at the time of calibration. A manual bellows pump or equivalent with colorimetric tubes for specific compounds will be utilized to determine the course of action related to upgrading or downgrading the level of respiratory protection, as applicable.

If air monitoring data indicate safe levels of potentially harmful constituents at consistent intervals (5-minute intervals), then monitoring can be conducted less frequently (every 30 minutes). This determination will be made by the onsite SHSO. Monitoring data, including background readings and calibration records, will be documented. Work to be performed on-Site will conform to Roux's Standard Operating Procedures (SOPs). Conformance with these guidelines as well as the guidelines described in this HASP will aid in mitigating the physical and chemical hazards mentioned throughout this HASP.

8.7 Tailgate Safety Meetings

A designated Site worker will provide daily safety briefings (e.g., tailgate meetings) including, but not limited to, the following scenarios:

- When new operations are to be conducted;
- Whenever changes in work practices must be implemented; and
- When new conditions are identified and/or information becomes available.

Daily safety briefings shall be recorded on the Roux Daily Tailgate Health and Safety Meeting Log/Daily Site Safety Checklist, and all completed forms will become a part of the project file.

8.8 Spill Containment

Spill containment equipment and procedures should, at a minimum, meet the requirements of the facility's Spill Prevention, Control and Countermeasure Plan, if applicable. Otherwise, spill containment equipment and procedures must be considered depending on the task, including, but not limited to, chemical/product transfer points and handling.

8.8.1 Initial Spill Notification and Response

Any worker who discovers a hazardous substance spill will immediately notify the SHSO. The worker will, to his/her best ability, report the hazardous substance involved, the location of the spill, the estimated quantity of material spilled, the direction/flow of the spill material, related fire/explosion incidents, and any associated injuries without compromising their own safety.

8.8.2 Spill Evaluation and Response

The SHSO is responsible for evaluating spills and determining the appropriate response. When this evaluation is being made, the spill area will be isolated and demarcated to the extent possible. If necessary to protect nearby community members, notification of the appropriate authorities is made by the PM as appropriate. On-Site response is limited to small spills (e.g., <10 gallons); large spills require external emergency responders who will be contacted by the SHSO.

8.9 Decontamination

The decontamination section of the HASP describes how personnel and equipment are decontaminated when they leave the Exclusion Zone. This section also describes how residual waste from decontamination processes is disposed. The site decontamination procedures are designed to achieve an orderly, controlled removal or neutralization of contaminants that may accumulate on personnel or equipment. These procedures minimize worker contact with contaminants and protect against the transfer of contaminants to clean areas of the site and off-site. They also extend the useful life of PPE by reducing the amount of time that contaminants contact and can permeate PPE surfaces. Decontamination is facilitated within the CRZ at this site, if applicable.

8.9.1 Decontamination Procedures for Personnel and PPE

The following are general decontamination procedures established and implemented at this site.

1. Decontamination is required for all workers exiting a contaminated area. Personnel may re-enter the SZ only after undergoing the decontamination procedures described below in the next section.

2. Protective clothing is decontaminated, cleaned, laundered, maintained and/or replaced as needed to ensure its effectiveness.
3. PPE used at this site that requires maintenance or parts replacement is decontaminated prior to repairs, or
4. PPE used at this site is decontaminated or prepared for disposal on the premises. Personnel who handle contaminated equipment have been trained in the proper means to do so to avoid hazardous exposure.
5. This site uses an off-site laundry for decontamination of PPE. The site has informed that facility of the hazards associated with contaminated PPE from this site.
6. The site requires and trains workers that if their permeable clothing is splashed or becomes wetted with a hazardous substance, they will immediately exit the work zone, perform applicable decontamination procedures, shower, and change into uncontaminated clothing.
7. Procedures for disposal of decontamination waste meet applicable local, State, and Federal regulations.

8.9.2 Decontamination Procedures for Equipment

All tools, equipment, and machinery from the EZ or CRZ are decontaminated in the CRZ prior to removal to the SZ. Equipment decontamination procedures are designed to minimize the potential for hazardous skin or inhalation exposure and to avoid cross-contamination and chemical incompatibilities.

General Equipment Decontamination Procedures:

1. Decontamination is required for all equipment exiting a contaminated area. Equipment may re-enter the SZ only after undergoing the equipment decontamination procedures.
2. Vehicles that travel regularly between the contaminated and clean areas of the site are carefully decontaminated each time they exit the EZ and the effectiveness of that decontamination is monitored to reduce the likelihood that contamination will be spread to other parts of the site.
3. Particular attention is given to decontaminating tires, scoops, and other parts of heavy equipment that are directly exposed to contaminants and contaminated soil.
4. Procedures for disposal of decontamination waste shall meet applicable local, State, and Federal regulations.

The following items may be used to decontaminate equipment:

- Fresh water rinse;
- Non-phosphorus detergent wash;
- Acetone rinse;
- Distilled water rinse; and
- A steam cleaner or pressure washer (heavy equipment only).

8.9.3 Monitoring the Effectiveness of Decontamination Procedures

Visual examination and sampling are used to evaluate the effectiveness of decontamination procedures. Visual examination is used to ensure that procedures are implemented as described and that they appear to control the spread of contaminants under changing site conditions. Visual examination is also used to inspect for signs of residual contamination or for contaminant permeation of PPE.

Personnel who work in contaminated areas of the site, either the Contamination Reduction Zone (CRZ) or the Exclusion Zone, are trained in the principles and practices of decontamination described in this section of the HASP and in related SOPs. If site procedures are changed as a result of inspection and monitoring, all affected employees are notified of these changes.

8.10 Confined Space Entry

Confined space entry will not be performed by Roux personnel.

The following is a list of the safety requirements for confined space entry at the Site:

- **ROUX PERSONNEL ARE NOT AUTHORIZED TO ENTER AN OSHA PERMIT REQUIRED CONFINED SPACE;**
- Currently the scope of work **DOES NOT** require personnel to enter permitted confined space for this project; and
- Any changes to the field activities that may necessitate confined space entry will be reported to the Project Principal and OHSM.

Confined space is defined as any space, depression, or enclosure that:

- Has limited opening for entry and egress;
- Is large enough for and employee to enter and perform assigned work; and
- Is not intended for continuous occupancy.

A permit required confined space is one that meets the definition of a confined space and has one or more of the following characteristics:

- May contain or produce life-threatening atmospheres due to oxygen deficiency the presence of toxic, flammable, or corrosive contaminants;
- Contains a material that has the potential for engulfment;
- Has an internal configuration that may cause an entrant to be trapped or asphyxiated by inwardly converging walls or by a floor that slopes downward and tapers to a smaller cross-section; and
- Contains any other serious safety or health hazards.

Although Roux personnel will not perform confined space entry, it is expected that subcontractors performing cleaning and mitigation and/or remedial measures activities may be required to enter structures that are considered to be a permit required confined space. Permitting of the confined space as well as hazard mitigation for entry will be completed by the subcontractor in accordance with 29 CFR 1910.146 or 1926.1201-1213 and/or applicable local/client requirements.

8.11 Client and Site-Specific

In addition to the OSHA-specific procedures discussed above, there may be client and site-specific safety procedures that must be adhered to during the performance of remedial activities at the Site.

8.12 Unusual or Significant Risks

Field activities that appear to have unusual or significant risks that cannot be adequately managed with existing risk tools such as LPS, HASPs, traffic safety plans, work permits, design and O&M practices,

equipment HAZOPS or other safety tools must be referred to the CHSD to help with the assessment and management of the associated potential safety risks. Examples include the use of explosives for demolition, use of firearms to control wildlife, rappelling, demolition over water, diving, etc.

8.13 Activity-Specific Hazards

In addition to the general hazards discussed above, there are activity-specific hazards associated with each work activity planned for the Site. An activity-specific JSA has been completed for each of the activities planned for the Site. JSAs are provided in **Appendix A**. In the event that new work activities or tasks are planned, JSAs will be developed and implemented prior to performing the new activities. In the absence of a JSA, the personnel performing work must prepare a field JSA and receive clearance from a designated competent safety official prior to performing any task with significant risk. In emergency situations where time is critical, Last Minute Risk Assessments (LMRAs) will be utilized to identify the task, associated hazards and mitigative actions to take. For lower risk activities (as deemed by the discretion of a Competent Person) where a JSA is determined to not be needed, the individual(s) conducting the activities must perform LMRAs prior to and during the work.

8.13.1 Electrical and Other Utility Assessment and Accommodations

Roux shall perform a site walk to identify any potential overhead electrical or utility lines. All applicable guidelines will be followed in the vicinity of overhead power and utility lines (see Section 8.13.3 below).

Roux has also reviewed all available Site maps showing buried utility lines to identify potential hazards; the review revealed no underground hazards are known to exist in the vicinity of the areas of the Site pertinent to this HASP.

8.13.2 Subsurface Work

Subsurface work activities will require adherence to Roux's Corporate Subsurface Utility Clearance Management program found within Appendix E.

8.13.2.1 Excavations and Trenching

Trenching and excavation work activities carried out by Roux and their subcontractors shall comply with applicable OSHA standards (i.e., 29 CFR 1926.650-652). Regional Notification Centers (i.e., Underground Services Alert) shall be notified at least two working days prior to the start of any digging or excavation work per state requirements (i.e., 811-One Call). Personnel responsible for excavation activities will be trained in their job responsibilities. Additionally, for trenches 4 feet or deeper, where employees will enter, the trench needs to have a stairway, ladder or other safe means of egress, and located so that employees do not have to travel farther than 25 feet horizontally. Where employees will enter trenches greater than 5 feet deep, the trench must have some type of protective system or sloped sidewalls appropriately to prevent cave-ins.

The SHSO or other responsible Roux personnel will be present on-Site during all Roux contracted excavation and backfill operations and will supplement health and safety monitoring conducted by Subcontractor air quality screening to ensure that appropriate levels of protection and safety procedures are utilized. The proximity of chemical, water, sewer, and electrical lines will be identified by Roux and/or their subcontractor before any subsurface activity or sampling is attempted. Prior to any excavation activities, trees, shrubbery, and other objects that can potentially pose as a hazard during excavation should

be supported or removed from the excavation area. The following safe work practices will be implemented during this task.

- The proximity of chemical, water, sewer, and electrical lines will be identified by a facility representative prior to beginning any subsurface activity;
- At the start of every day, a competent person will inspect excavations to evaluate if the area is stable and safe to enter. Inspections will be conducted as needed throughout the excavation operations. If deemed necessary, a competent person may also conduct inspections after rainfall or any other event that can potentially affect the integrity of the excavation. Employees will not enter excavations where water has accumulated until protective measures have been implemented.
- Prior to entering excavations greater than 4 feet in depth, air monitoring for oxygen and hazardous atmospheres must be conducted to assure atmospheric conditions are within normal levels described in Section 8.6. Continuous air monitoring with a standard multi-gas detector (O2, LEL%, CO, H2S) shall be used during the course of work within an excavation; if action limits are reached workers shall safely exit the excavation. Upgrades to worker protection should be evaluated with the SHSO and PP in consultation with the CHSD. Emergency rescue equipment, such as breathing apparatuses and safety harnesses connected to an extraction device, will be readily available in the event of hazardous atmospheric conditions;
- While earthmoving, stay out of the excavator's delineated heavy equipment exclusion zone and away from the excavation sides where there is potential for cave in (within excavations that are 6 feet or more in depth, a delineated perimeter 6 feet away from the excavated edge is required);
- During loading and unloading operations, stand away from haul trucks and other vehicles to avoid contact with any falling loads; and
- Traffic cones, caution tape, or other barriers will be set up around the perimeter of the excavation when employees are working along the excavation edge and for any excavation that will be left open overnight or unattended for more than two days.

Maximum Allowable Slopes

Soil or Rock Type	Maximum Allowable Slopes (H:V)[1] for Excavations Less Than 20 Feet Deep[3]
Stable Rock	Vertical (90°)
Type A[2]	3/4 : 1 (53°)
Type B	1 : 1 (45°)
Type C	1 1/2 : 1 (34°)

29 CFR 1926 Subpart P Appendix B Sloping and Benching Table B-1

Notes:

[1] Numbers shown in parentheses next to maximum allowable slopes are angles expressed in degrees from the horizontal. Angles have been rounded off.

[2] A short-term maximum allowable slope of 1/2H : 1V (63°) is allowed in excavations in Type A soil that are 12 feet (3.67 meters) or less in depth. Short-term maximum allowable slopes for excavations greater than 12 feet (3.67 meters) in depth shall be 3/4H : 1V (53°).

[3] Sloping or benching for excavations greater than 20 feet deep shall be designed and stamped by a registered professional engineer.

Proper stockpiling (i.e., 2 feet minimum distance from the excavation edge), containment, transport, storage, and disposal practices will be utilized and is dependent upon the potential type and amount of waste generated during operations. The location of safety equipment and evacuation procedures will be established prior to initiation of operations according to this HASP.

8.13.3 Heavy Equipment

Use of heavy equipment at the Site will require adherence to Roux's Corporate Heavy Equipment Exclusion Zone Management Program found within Appendix F. Additionally, operation of the drill rig/other heavy equipment will maintain clearances from overhead power lines in accordance with 29 CFR 1926.1408 Table A Minimum Clearance Distances provided below.

Minimum Required Clearances for Energized Overhead Power Lines

Nominal System Voltage of Power Line (K V)	Minimum Required Clearance (feet)
0-50	10
51-100	12
101-200	15
201-300	20
301-500	25
501-750	35
751-1000	45

1 kilovolt (KV) = 1,000 volts

8.14 Traffic Control

If Site operations encroach upon public streets or highways and a hazard exists to Site personnel because of traffic conditions, a traffic control plan will be implemented in accordance with the United States Department of Transportation's (DOT's) "Manual on Uniform Traffic Control Devices."

8.15 Sanitation

Sanitation facilities will be provided in accordance with the sanitation standards (29 CFR 1910.141, 29 CFR 1926.51 and 29 CFR 1928.110). Sanitation facilities will be maintained and kept in good conditions at all times.

9. Field Team Review

Each person performing work at or visiting this site shall sign this section after site-specific training is completed and before being permitted to access the CRZ or Exclusion Zone.

I have read and understand this Site-Specific Health and Safety Plan. I will comply with the provision contained therein.

Site/Project: 213 Meadow Street MTA Facilities Project Site

Name & Company	Signature	Date

10. Approvals

By their signature, the undersigned certify that this HASP is approved and will be utilized at the **213 Meadow Street MTA Facilities Project Site**.

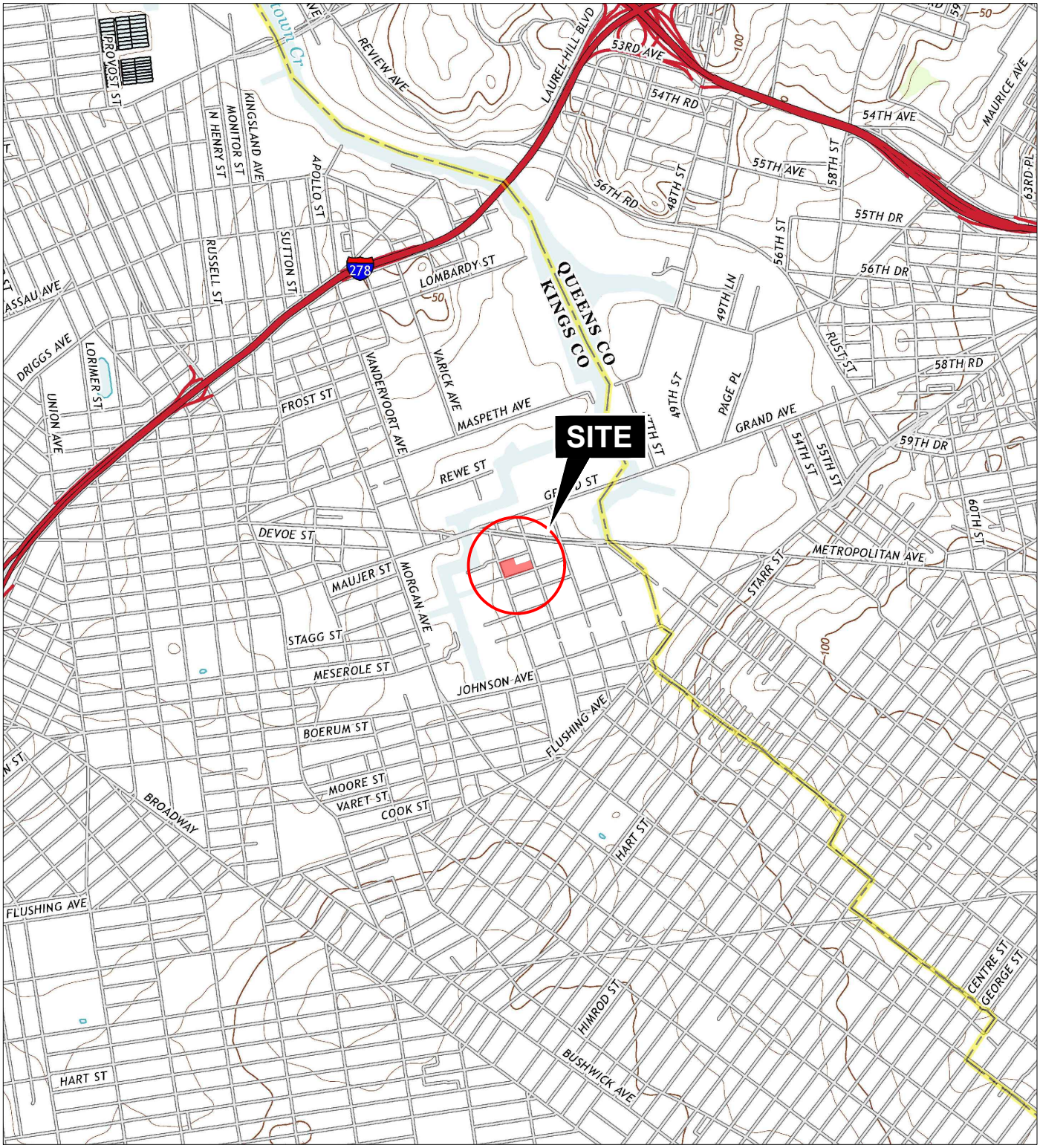
TDB – Site Health and Safety Officer	Date
Nevin Pahlad – Office Health and Safety Manager	Date
Levi Curnutte – Project Manager	Date
Jessica L. Taylor, P.G. – Project Principal	Date

TABLES

1. Toxicological Properties of Hazardous Substances Present at the Site

FIGURES

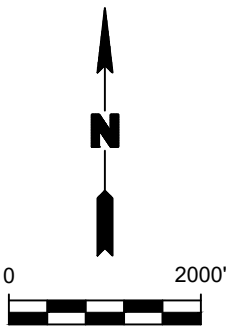
1. Site Location Map
2. Site Plan with Emergency Muster Area



QUADRANGLE LOCATION



SOURCE:
USGS, 2013, Brooklyn, NY
7.5 Minute Topographic Quadrangle



Title:

SITE LOCATION MAP

BCP SITE NO. C224422
213 MEADOW STREET, BROOKLYN, NEW YORK

Prepared for:

GO QUAY, LLC

ROUX

Compiled by: T.B.	Date: 4/16/2026	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	1
Project Mgr: L.C.	Project: 3084.0003Y000	
File: 3084.0003Y1001.02.DWG		

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LEGEND

SITE BOUNDARY

EMERGENCY MUSTER POINT

N

40' 0 40'

Title:

SITE PLAN WITH EMERGENCY MUSTER POINT

BCP SITE NO. C224422
213 MEADOW STREET, BROOKLYN, NEW YORK

Prepared for:

GO QUAY, LLC

ROUX

Compiled by: T.B.	Date: 4/17/2026	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	2
Project Mgr: L.C.	Project: 3084.0003Y000	
File: 3084.0003Y1001.01.DWG		

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APPENDICES

A. Job Safety Analysis (JSA) Forms
B. Safety Data Sheets (SDSs) for Chemicals Used
C. Heat Illness Prevention Program
D. Personal Protective Equipment (PPE) Management Program
E. Subsurface Utility Clearance Management Program
F. Heavy Equipment Exclusion Zone Policy

APPENDIX A

Job Safety Analysis (JSA) Forms

JOB SAFETY ANALYSIS	Ctrl. No. GEN-003	DATE 4/10/2023	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Construction - Excavation**	**Backfilling Excavation & Compaction**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
David Kaiser	Project Engineer	Brian Hobbs	CHSD
Edward Lacina	Senior Construction Manager		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Leather/ cut-resistant level 2
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER _____
☐ LIFELINE / BODY HARNESS	☒ HEARING PROTECTION	☒ PPE CLOTHING: reflective DOT approved safety	
☒ SAFETY GLASSES	☒ SAFETY TOE BOOTS		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Payloader, Backhoe, Dump Trucks, Mechanical gas powered tampers, Excavator with hydraulic tamper. APR when tamping if dust present. Two-way radios.

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs.

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone (HEEZ) around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Pre-construction meeting: Review proposed excavation locations	**1a. CONTACT:** Potential for contact with subsurface utilities and above ground utilities	1a. Call state 811 for mark out service and one call ticket. 1a. Obtain private utility mark out service as necessary. 1a. Review and mark proposed excavations w/white paint. 1a. Identify all "Critical" zones. A Critical zone is any area within 10 feet of any operating utility. 1a. Complete subsurface clearance checklist. 1a. Soft dig must be conducted within 2 lateral feet of any suspected underground utility. 1a. Protection of aboveground utilities identified as being located within the work zone must be coordinated w/ client and utility owner.
2. Secure Work Area	**2a. CONTACT:** Potential for personnel to enter the work area. Potential for equipment to contact, or crush personnel. **2b. EXERTION:** Potential for muscle strain or tear while installing traffic cones and barrel	2a. Ensure work area is secure and inform others of work activity. Establish a HEEZ using 42" traffic cones, barrels & snow fencing or telescoping poles. Use of flag persons to maintain clear traffic and to minimize motorist confusion during set-up of new traffic pattern. HEEZ to include tip/swing radius of equipment. 2a. Dump Truck/Excavator/Payloader/Backhoe equipment to be set-up by personnel who are familiar with machinery. Spotters shall be in place for all equipment. and to control access to the HEEZ 2a. Truck wheels are chocked when driver is not in truck and engine shut off. 2a. Personnel shall stay out of the exclusion zone (10' minimum or greater than the equipment boom) while equipment is maneuvering. 2b. Keep back straight, keep load close to the body and bend knees while lifting and working. If over 50 lbs., use 2 or more laborers for lifting or use of equipment.

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[2] A hazard is a potential danger. Break hazards into six types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards; Energy Source – electricity, pressure, compression/tension.
[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

3. Backfilling excavation, and compaction	**3a. CONTACT:** Traffic and live equipment. . **3b. EXPOSURE:** Fumes from gas powered tamper **3c. FALL:** Slips, trips, fall hazards. **3d. OVEREXERTION:** Muscle strain, or tear. **3e. EXPOSURE:** Noise from tamper. Dust inhalation.	3a. Equipment and trucks shall be isolated from other workers, subcontractors and third party traffic with 42" traffic cones, barricades, snow fencing or telescoping poles, and/or Jersey barriers. Spotters shall direct dump truck for placement of fill near excavation. Pay loader/ Excavator, as directed by spotter, shall move fill into trench where it shall be placed in layers and compacted by mechanical means. 3a. Spotters will wear florescent vests at all times. 3a. Spotters will remain out of the exclusion zone, line-of-fire from equipment and third-party vehicles. 3a. Spotters and operators will have radios for communication, when other visual and/or hand signals are insufficient. 3a. Locate all overhead utilities. All personnel and machinery should maintain a minimum 10' distance from overhead electric lines. Refer to OSHA chart for distances and voltage. 3a. For excavations engineered (shored, sloped, benched} all personnel, equipment, and materials must remain a minimum of 2 feet from edge of excavation. 3b. Fueling of all equipment will be done outside of work area in a well-ventilated area. Refueling will be done only after a 2-5-minute cool down. 3c. Work area will be clean and free of any debris to remove slip, trip and fall hazards. All tools will be kept in designated areas. Insure work area is well illuminated. 3c. Workers should only be working in areas that have been leveled with a machine. 3c. All persons working at elevations over 6' shall use a guardrail system or personal fall arrest system while around excavation. 3d. Keep knees bent and back straight while transferring/ lifting/lowering tamper from elevated areas. Utilize a co-worker to avoid staining muscles. 3d. Keep knees bent and back straight while maneuvering tamper. Utilize a co-worker to avoid staining muscles. 3e. Workers will wear hearing protection during compaction tamper activities. 3e. Wear NIOSH approved dust mask for personal comfort. If dust is visible for extended time, limit by wetting down area. 3e. If dust continues stop work and evaluate if increase in APR is needed with approval and clearance.
4. Secure/leave site.	**4a. FALL:** Slip, trip, fall	4a. Clear work area of all debris and store all equipment in designated areas/containers before opening to traffic. 4a. Replace fencing and barricades as needed to secure path before opening roadway or area up to traffic(vehicle, pedestrian and/or bicycle).

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-006	DATE 4/10/2023	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY:	WORK TYPE:	WORK ACTIVITY (Description):	
Generic	**Drilling**	**Direct Push Soil Borings / Well Installation**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Timothy Zei	Project Hydrogeologist	Raymond Olson	OHSM
		Brian Hobbs	CHSD

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION: (as needed) ☒ SAFETY SHOES: Composite-toe or steel toe boots	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing, Long Sleeve Shirt	☒ GLOVES: Leather, Nitrile and cut resistant ☒ OTHER: Insect Repellant, sunscreen (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Geoprobe or Truck-Mounted Direct Push Drill Rig, Hand Tools, Photoionization Detector, Multi-Gas Meter (or equivalent), Macrocore liners, Liner Opening Tool, 20 lb. Type ABC Fire Extinguisher, 42" Cones & Flags, "Work Area" Signs, Water

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

"SHOW ME YOUR HANDS"
Driller and helper should show that hands are clear from controls and moving parts

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization of drilling rig (ensure the Subsurface Clearance Protocol and Drill Rig Checklist are completed)	**1a. CONTACT:** Equipment/property damage.	1a. The drill rig's tower/derrick will be lowered and secured prior to mobilization. 1a. A spotter should be utilized while moving the drill rig. If personnel move into the path of the drill rig, the drill rig will be stopped until the path is again clear. Use a spotter for all required backing operations. 1a. Set-up the work area and position equipment in a manner that eliminates or reduces the need for backing of support trucks and trailers. 1a. When backing up truck rig with an attached trailer use a second spotter if there is tight clearance simultaneously on multiple sides of the equipment or if turning angles limit driver visibility. 1a. Inspect the driving path for uneven terrain. Level or avoid if needed. 1a. Drill rig should have a minimum **exclusion zone which encompasses its tip radius** for non-essential personnel (i.e., driller helper, geologist) when the rig is moving/ in operation.
	1b. FALL: Slip/trip/fall hazards.	1b. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 1b. Do not climb over stored materials/equipment; walk around. Practice good housekeeping. 1b. Use established pathways and walk on stable, secure ground.
	1c. CONTACT: Crushing from roll-over.	1c Geoprobe should cross all hills/obstructions head on with the mast down to reduce risk of roll-over.
2. Raising tower/derrick of drill rig	**2a. CONTACT:** Overhead hazards.	2a. Prior to raising the tower/derrick, the area above the drilling rig will be inspected for wires, tree limbs, piping, or other structures, that could come in contact with the rig's tower and/or drilling rods or tools. 2a. Maintain a safe distance of 10' from overhead structures.
	2b. CONTACT: Pinch Points/Amputation Points when raising the rig and instability of rig	2b. Inspect the equipment prior to use and avoid pinch/amputation points. 2b. Lower outriggers to ensure stability prior to raising rig tower/derrick. 2b. If the rig needs to be mounted, be sure to use three points of contact.
3. Advancement of drilling equipment and well installation	**3a. CONTACT:** Flying debris	3a. Be aware of and avoid potential line-of-fire hazards and wear required PPE such as eye, ear, and hand protection.
	3b. EXPOSURE: Noise and dust.	3b. Wet borehole area with sprayer to minimize dust. 3b. Stand upwind and keep body away from rig. 3b. Dust mask should be worn if conditions warrant. 3b. Wear hearing protection when the drill rig is in operation.
Assess [1]JOB STEPS	**Analyze [2]POTENTIAL HAZARDS**	**Act [3]CRITICAL ACTIONS**

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3. Advancement of drilling equipment and well installation (Continued)	**3a. CONTACT:** Flying debris **3b. EXPOSURE:** Noise and dust. **3c. FALL:** Slip/trip/fall hazards. **3d. CAUGHT:** Limb/extremity pinching; abrasion/crushing. **3e. CONTACT:** Equipment imbalance during advancement of drill equipment. **3f. EXPOSURE:** Inhalation of contamination/vapors. **3g. EXERTION:** Potential for muscle strain/injury while lifting and installing well casings, lifting sand bags, and/or lifting rods.	3c. Contain drill cuttings and drilling water to prevent fall hazards from developing in work area. 3c. See 1b. 3d. Ensure all Emergency Safety Stop buttons function properly. 3d. Always wear leather gloves when making connections and using hand tools; wear cut-resistant (i.e., Kevlar) gloves when handling cutting tools. 3d. Inspect the equipment prior to use for potential pinch/amputation points. Keep hands away from pinch/amputation points and use of tools is preferable compared to fingers and hands. 3d. Inspect drill head for worn surface or missing teeth; replace if damaged or blunt. 3d. Ensure all jewelry is removed, loose clothing is secured, and PPE is secured close to the body. 3d. All non-essential personnel should stay away from the immediate work area; position body out of the line-of-fire of equipment. 3d. Drillers and helpers will understand and use the "Show Me Your Hands" Policy. 3d. Spinning rods/casing have an **exclusion zone of tip radius** while in operation. 3e. Drillers will advance the borehole with caution to avoid causing the rig to become imbalanced and/or tip. 3e. The blocking and leveling devices used to secure the rig will be inspected by drillers and Roux personnel regularly to see if shifting has occurred. 3e. In addition, personnel and equipment that are non-essential to the advancement of the borehole will be positioned away from the rig at a distance that is at least as far as the boom is high (**minimum exclusion zone**). 3f. Monitor ambient air for dangerous conditions using a calibrated photoionization detector (PID) to periodically monitor the breathing zone of the work area. 3f. If a reading of >5ppm is recorded, the Roux field personnel must temporarily cease work, instruct all Site personnel to step away from the area of elevated readings and inform the Roux PM of the condition. The Roux PM will then recommend additional precautions in accordance with the site specific health and safety plan. 3f. Use a multi-gas meter to monitor ambient air for dangerous conditions (i.e. unsafe levels of carbon monoxide when drilling indoors or the presence of explosive vapors). 3g. Keep back straight and bend at the knees. 3g. Utilize team lifting or mechanical means for objects over 50lbs. 3g. Use mechanical lifting device for odd shaped objects.
4. Remove sample liner.	**4a. EXERTION:** Potential for muscle strain/injury while removing liner from probe rod. **4b. CONTACT:** Pinch points and cuts **4c. EXPOSURE:** Inhalation and/or dermal contact with contaminants.	4a Utilize team lifting or mechanical means for objects over 50lbs. 4a. Use hydraulic liner extruder if available. 4b. Place liner on sturdy surface when opening. 4b. Don cut-resistant gloves and use appropriate liner cutter when opening liners. 4b. Always cut away from the body. 4c. Wear chemical-resistant disposable gloves when handling liners. 4c. See 3f.
5. Decontaminate equipment.	**5a. EXPOSURE/CONTACT**: To contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated groundwater, vapors). **5b. EXPOSURE:** To chemicals in cleaning solution including ammonia.	5a. Wear chemical-resistant disposable gloves and safety glasses. 5a. Contain decontamination water so that it does not spill. 5a. Use an absorbent pad to clean spills, if necessary. 5a. Spray equipment from side angle, not straight on, to avoid backsplash. 5a. See 3b and 3f. 5b. See 4a. Review SDS to ensure appropriate precautions are taken and understood.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-009	DATE: 4/10/2023	☐ NEW ☒ REVISED	PAGE 1 of 1

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
Generic	**O&M**	**Movement of 55-Gallon Drums/Drum Handling with Mobile Carrier**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Michael Sarni	Technician	Brian Hobbs	CHSD

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Cut-resistant gloves
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER:
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent long sleeve shirt or long sleeve shirt and reflective safety vest.	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Steel or composite toe		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Mobile Drum Carrier, over-pack drum container, safety cones, and caution tape

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment (i.e. forklift) and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Preparing for and Inspection of Drum	**1a. FALL:** Tripping/falling due to uneven surface. Loose debris/garbage in work area.	1a. Clear area of loose garbage and debris. Inspect 55-gal drums for proper condition, labeling, check drum ring and bolts for tightness, inspect mobile drum carrier. 1a. Do a Test Lift to get a general sense of the weight of the drum. 1a. Inspect and use established pathways to avoid uneven terrain, weather-related hazards (i.e., debris, puddles, ice, etc.), and other obstructions. 1a. Secure work area and coordinate and communicate the planned work activities with other personnel working in the area. 1a. Delineate work area with 42" safety cones.
	1b. CONTACT/EXPOSURE: Drums could potentially be damaged or contain hazardous material. Mobile drum carrier could potentially be in poor working condition causing malfunctioning during operation.	1b. Prior to inspecting drums don cut-resistant gloves. If drum is not properly labeled, do not open and cease all drum transport activities. Immediately contact project manager and inform him/her of drum situation. 1b. Do not continue drum transport activities until further actions are determined by the project manager. 1b. If the drum is properly labeled, but leaking, improperly sealed or in poor condition, place drum in an over-pack drum. 1b. Inspect mobile drum carrier to ensure its overall integrity. Look for rust marks or potential weak points where the drum carrier could malfunction. Inspect the wheels to ensure that they easily turn and nothing is impeding their movement.
	1c. EXERTION/CAUGHT: Potential pinching/exertion hazards while securing ring/ tightening bolts	1c. Keep back straight and knees slightly bent while securing drum ring/tightening bolt. Wear cut-resistant gloves.
2. Position drum clamp tightly in between drum ribs, securing drum clamp to drum with chain	**2a. CAUGHT:** Pinching fingers between drum clamp and handle/chain.	2a. Attach drum clamp with chain and tighten until snug. Do not place hands between drum clamp and drum as the chain is tightened; wear cut resistant gloves. Keep face away from drum when handling in case of escaping vapors.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
3. Disengage safety latches on handle, pull handle down until drum is lifted off ground and safety latches are reengaged; slightly suspending drum off the ground	**3a. EXERTION/ CONTACT:** Potential muscle strain associated with lifting/engaging drum/handle. Drum could shift/slip downward and crush toes.	3a. Ascertain whether the drum is overweight; if it is, then two people are needed to lower handle while drum is secured with clamp so that safety latches can be engaged. Keep body out of the lin-of-fire of the handle (do not position head above handle) as it is being pushed down. Do not allow feet/toes to be positioned under the drum as it is being lifted; wear steel/composite-toed boots.
	3b. CAUGHT: Fingers could be pinched while engaging/disengaging safety latches on handle	3b. Wear cut-resistant gloves while disengaging/reengaging safety latches. 3b. Avoid placing hands in pinch points.
4. Transport drums to designated location and disengage drum clamp (repeat Step 3 in reverse order)	**4a. FALL:** Tripping/ falling due to obstructions and uneven terrain. Potential for drum to fall during transport.	4a. Ensure transport path is free of potential obstructions that may cause the drum/carrier to become unstable. Position drum clamp between the ribs on the drum to prevent possible slipping.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-011	DATE: 4/10/2023	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
Generic	**Construction - Excavation**	**Excavation / Trenching**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
David Kaiser	Senior Engineer	Brian Hobbs	CHSD
Tim Unalp	SHSO		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Leather or cut resistant
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER
☒ LONG SLEEVED SHIRT	☒ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility long sleeved clothing	
☐ LIFELINE / BODY HARNESS	☒ SAFETY SHOES: Steel-toe boots		
☒ SAFETY GLASSES			

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Jackhammer, Excavator, Backhoe, Hand Tools, Photoionization Detector, barrels, 42" traffic cones, snow fencing, telescoping poles, temporary chain link fence, ladders, shovels, digging bars, power tools (cut-off saw), Two-way radios, Sheeting, Trench box, Retractable lanyard, Harness

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or footprint of a structure to be demolished.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Pre-Clearance Protocol.	**1a. CONTACT:** Damage to underground utility.	1a. Confirm that (if applicable) "Call Before You Dig" and local utility companies were contacted prior to trenching in order to confirm utility mark outs. Must have a case # before digging.
	1b. ENERGY SOURCE/CONTACT: Property damage; Pressurized water mains may cause lacerations or broken bones. Pressurized gas mains may explode causing serious injury, or death. Underground electric may cause severe burns, shock, or death.	1b. Pre-clearing of the trenching location must be conducted to a minimum of 5 vertical feet below the ground surface (10 feet minimum for Critical Zone) using soft digging methods or hand tools (shovel and non-metallic dig bar) prior to trenching. Supervisor should be contacted to discuss appropriate pre-clearing depth. **1b. Complete subsurface clearance checklist**.
	1c. FALL: Slip, Trip or Fall may cause muscle strains or tears, abrasions, lacerations, or broken bones.	1c. Be aware of the conditions when walking or loading equipment and working. Walk within established pathway avoiding uneven surfaces. Remove potential slip/trip/fall hazards.
2. Set up work zone.	**2a. CONTACT/CAUGHT:** Cuts/lacerations from equipment. Broken bones from contact by vehicle.	2a. Isolate work area from hazards with cones, barricades, and snow fencing, telescoping poles or temporary chain link fence. Utilize a flag person when necessary (i.e., third party traffic in area). Install traffic signs in roadways and for detours. Spotters will maintain and enforce exclusion zone.
	2b. FALL: Slip, Trip or Fall may cause muscle strains or tears, abrasions, lacerations, or broken bones.	2b. See 1c.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
3. Trenching Activity.	**3a. CONTACT:** Serious injury including broken bones, muscle strains or tears, and possibly death due to contact with machine.	3a. Spotter(s) required for all heavy equipment operation. No worker shall be allowed inside the exclusion zone or along the trench/excavation area while any equipment is in operation. A minimum exclusion zone greater than the length of the equipment boom must be established. Workers only allowed in exclusion zone if the operator is in "Hands Off "mode. Operator will not operate equipment until worker is out of exclusion zone. Spotters and operators will have radios for communication, when either loses sight of one another, and/or in case of emergency.
	3b. FALL: Slip, Trip or Fall may cause muscle strains or tears, abrasions, lacerations, or broken bones	3b. Any trench/excavation deeper than 3' must have a ladder within 25' of any worker in the excavation. At least 3'(rungs) of the ladder shall be above the top of the excavation. All spoil piles shall be maintained 2' minimum from edge of excavation. 3b. Any trench/excavation deeper than 6' must have fall protection, retractable lanyard for ladder use, and 42" high guardrails along the edge of the trench/excavation.
	3c. EXPOSURE: Noise, Dust, Concrete- Asphalt, petroleum hydrocarbon vapors may cause damage to ears and lungs	3c. Air monitoring using a calibrated photoionization detector (PID) will be used to monitor the breathing zone of the work area. If a reading of >5ppm is recorded, the oversight personnel must temporarily cease work and instruct all Site personnel to step away from the area of elevated readings.
4. Setting Trench protections if necessary.	**4a. CAUGHT:** Injury due to contact with failed trench, may include muscle strains or tears, abrasions or lacerations, broken bones and possibly death.	4a. To prevent cave-ins and avoid caught by/between, excavations over 4' in depth, unless working in stable rock, shall have engineer approved shoring, sheeting or trench box. Top of protection shall be at least 2' above top of excavation.
	4b. CONTACT/CAUGHT: Injury due to rigging activities and entering exclusion zone during lifting and/or transport of shoring/trench box/material may include muscle strains or tears, abrasions or lacerations, broken bones and possibly death.	4b. Use only inspected rigging with 2, 3 or 4 lift points; wear cut-resistant gloves. Rigging to be hooked up to factory installed hook up points on equipment. Control load with non-conductive tag lines with workers out of exclusion zone. Don't stand underneath suspended load; wear steel toed boots and hard hat.
	4c. FALL: Possible injury due to fall into excavation may include muscle strains or tears, abrasions or lacerations, or broken bones.	4c. Shoring to be set and sides will be backfilled to avoid fall hazards before workers are allowed to enter area. Operator will be in "HANDS OFF" mode before workers enter work area to unhook rigging. An inspected ladder extending 3' above top of the shoring will be used to enter and exit the excavation. Workers will use three points of contact when using the ladder.
5. Secure/Leave Site. If backfilling, see excavation backfilling and compaction JSA for potential hazards and critical actions.	**5a. FALL:** Potential Slip, Trip or Fall - may cause muscle strains or tears, abrasions or lacerations, or broken bones.	5a. See 1c. 5a. All open excavations must be backfilled or secured prior to departure with steel plates, orange construction fence or temporary chain link fencing.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

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JSA TYPE CATEGORY	WORK TYPE:	WORK ACTIVITY (Description):	
Generic	**Gauging and Sampling**	**Gauging and Sampling**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Tim Unalp	SHSO	Brian Hobbs	CHSD

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☒ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☐ HEARING PROTECTION ☒ SAFETY SHOES: Composite-toed or steel-toed boots	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	☒ GLOVES: Leather, Nitrile and cut resistant ☒ OTHER: Knee pads, Insect Repellant, sunscreen (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

42-inch Safety Cones, Caution Tape, Interface Probe with Ground Clamp, and/or Water Level Meter, 20-lb., Type ABC Fire Extinguisher, Buckets. Tools as needed: Socket Wrench, Screw Driver, Crow Bar, Mallet, and Wire Brush.

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization to monitoring well(s).	**1a. FALL:** Personal injury from slip/trip/fall due to uneven terrain and/or obstructions.	1a. Inspect pathway and plan for most suitable designated pathway prior to mobilization. 1a. Use established pathways, walk and/or drive on stable, secure ground and avoid steep hills or uneven terrain. 1a. If working near open water with an unguarded edge, wear life vest.
	1b. CONTACT: With traffic/third parties.	1b. Identify potential traffic sources and delineate work area with 42-inch traffic safety cones. Position vehicle to protect against oncoming traffic. Use caution tape to provide a more visible delineation of the work area if necessary. 1b. Wear appropriate PPE including high visibility clothing or reflective vest. 1b. Face traffic, maintain eye contact with oncoming vehicles, and establish a safe exit route.
	1c. EXERTION: Muscle strain from lifting equipment	1c. Use proper lifting techniques when handling/moving equipment; bend knees and keep back straight. 4c. Use mechanical assistance or team lifting techniques when equipment is 50 lbs. or heavier. 4c. Make multiple trips to carry equipment.
	1d. EXPOSURE: To biological hazards.	1d. Inspect work area for bees and insects. 1d. Use insect/tick repellent as necessary.
2. Open/close well.	**2a. EXERTION:** Muscle strain.	2a. Use proper lifting techniques; keep back straight, lift with legs and bend knees when reaching to open/close well.
	2b. CAUGHT: Pinch/crush points associated with removing/replacing manholes and working with hand tools.	2b. Wear leather gloves or cut resistant gloves when working with well cover and hand tools. 2b. Use proper tools (ratchet and pry bar or magnet for well cover) and inspect before use. 2b. Do not put fingers under well cover.
	2c. CAUGHT: Pinch points associated with placing J-plug back onto PVC pipe.	2c. See 2b. 2c. Keep fingers out of line-of-fire when securing cap.
	2d. EXPOSURE: To potential hazardous vapors.	2d. No open flames/heat sources. 2d. To minimize exposure to vapors, allow well to vent after opening it and before sampling activities begin. 2d. Stand up-wind if possible, to avoid inhaling vapors.
3. Gauge well.	**3a. CONTACT:** With contamination (e.g. contaminated groundwater).	3a. Wear chemical-resistant disposable gloves (over cut-resistant gloves) and safety glasses when gauging well. 3a. Insert and remove probe slowly to avoid splashing. 3a. Use an absorbent pad to clean probe.
	3b. CONTACT: With traffic.	3b. See 1b.
	3c. Exposure: To static electricity, fire or explosion.	3c. Ground interface probe to a designated grounding point/rod, well casing or suitably electrically conductive surface to dissipate static electricity.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
4. Purge and sample well	**4a. EXPOSURE/CONTACT:** To contamination (e.g., SPH, contaminated groundwater, vapors) and/or sample preservatives.	4a. Open and fill sample jars slowly to avoid splashing and contact with preservatives. 4a. Wear cut-resistant gloves and chemical-resistant disposable gloves when sampling. 4a. Fill sample containers over purge container to avoid spilling water onto the ground. 4a. Use an absorbent pad to clean spills. 4a. When using a bailer to purge a well, pull the bailer slowly from the well to avoid splash hazards. 4a. When sampling or purging the water using a bailer, pour out water slowly to reduce the potential for splash hazards with groundwater. 4a. When using a tubing valve always remove the valve slowly after sample collection to release any pressure and avoid pressurized splash hazards. 4a. When collecting a groundwater sample always point sampling apparatus (tubing, bailer, etc.) away from face and body.
	4b. CONTACT: Personal injury from cuts, abrasions, or punctures by glassware or sharp objects.	4b. To avoid spills or breakage, place sample ware on even surface. 4b. Do not over tighten caps on glass sample ware. 4b. Wear chemical-resistant nitrile disposable gloves over cut-resistant (i.e., Kevlar) gloves when sampling and handling glassware (i.e., VOA vials) or when using cutting tools.
	4c. EXERTION: Muscle strain while carrying equipment.	4c. Use proper lifting techniques when handling/moving equipment, bend knees and keep back straight. 4c. Use mechanical assistance or team lifting techniques when equipment is 50 lbs. or heavier. 4c. Make multiple trips to carry equipment.
	4d. CONTACT: With traffic.	4d. See 1b.
	4e. CONTACT: Pinch points with groundwater pump components (i.e., wheel, line, clamps).	4e. Wear leather/cut-resistant gloves when working with groundwater pumps. 4e. Never place hands on or near pinch points such as the wheel, clamps or other moving parts during pump operations. 4e. Use the correct mechanisms, such as a pump reel, to lower pump into well. 4e. Never attempt to manually stop any moving part of equipment including hose reels and/or tubing.
	4f. EXERTION: Muscle strain from repetitive motion of bailing and sampling a well.	4f. See 4c. 4f. Include a stretch break when repetitive motions are part of the task.
5. Management of purge water.	**5a. EXPOSURE/CONTACT:** To contamination (e.g., SPH, contaminated groundwater, vapors).	5a. Do not overfill container and pour liquids slowly so that they do not splash. 5a. Properly dispose of used materials/PPE in appropriate container in designated storage area.
	5b. EXERTION: Muscle strain from lifting/carrying and moving containers.	5b. Use proper lifting techniques when lifting / carrying or moving container(s) (see 4c.). 5b. Do not overfill container(s).
6. Decontaminate equipment.	**6a. EXPOSURE/CONTACT:** To contamination (e.g., SPH, contaminated groundwater, vapors).	6a. Work on the upwind side, where possible, of decon area. 6a. Wear chemical-resistant disposable gloves and safety glasses. 6a. Use an absorbent pad to clean spills.
	6b. CAUGHT: Pinch points associated with handling hand tools	6b. See 2b. 6b. Inspect hand tools for sharp edges before decontaminating.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-014	DATE: 4/10/2023	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY:	WORK TYPE:	WORK ACTIVITY (Description):	
Generic	**Drilling**	**Hollow Stem Auger Soil Borings / Well Installation**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Douglas Ferraiolo	Project Geologist	Brian Hobbs	CHSD
Tim Unalp	SHSO		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☒ GOGGLES: Spoggles required if winds exceed 15 mph. ☐ FACE SHIELD ☒ HEARING PROTECTION: (as needed). ☒ SAFETY SHOES: Steel or Composite Toe.	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent long-sleeve shirt or long-sleeve shirt and reflective safety vest.	☒ GLOVES: Leather, Cut-Resistant, and Nitrile. ☒ OTHER: Insect Repellant, Sunscreen (as needed).

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Truck-Mounted Drilling Rig or Track Rig, Saw, Hand Tools, Photoionization Detector, Multi-Gas Meter (or equivalent), Interface Probe, 20 lb. Type ABC Fire Extinguisher, 42" Cones & Flags, "Work Area" Signs.

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

"SHOW ME YOUR HANDS"
Driller and helper should show that hands are clear from controls and moving parts

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization / demobilization and establish a work area.	**1a. See Mobilization/ Demobilization JSA GEN-015.**	1a. See Mobilization / Demobilization JSA GEN-015.
2. Raising tower / derrick of drilling rig.	**2a. CONTACT:** Overhead hazards.	2a. Prior to raising the tower / derrick, the area above the drilling rig will be inspected for overhead hazards (wires, tree limbs, piping or other structures) that may be contacted by the rig's tower or drilling rods. 2a. The tower / derrick must not be raised beneath overhead power lines unless approved by the Roux PM. 2a. Maintain a minimum of 10' from all overhead structures. 2a. Do not move the rig while the tower / derrick is raised.
	2b. CONTACT: Amputation / crush points when raising the rig and instability of rig.	2b. Inspect the equipment prior to use and avoid any potential amputation points. 2b. Lower outriggers to ensure stability prior to raising rig tower derrick. Keep feet and body out of the line of fire when lowering out-riggers. 2b. Inspect the set-up location for uneven terrain. Level or avoid area if needed. 2b. If the rig needs to be mounted, be sure to use three points of contact.
3. Advancement of augers for soil boring installation.	**3a. CONTACT:** Equipment imbalance during advancement of drill equipment.	3a. Drillers will advance the borehole with caution to avoid causing the rig to become imbalanced and / or tip. 3a. The blocking and leveling devices used to secure the rig will be inspected by drillers and Roux personnel regularly to see if shifting has occurred. **3a. Drillers will maintain the "Purple Zone" policy surrounding augers to ensure no personnel come into contact with augers while in use. Workers will spray paint a 3' semi-circle surrounding the augers to visually show that no personnel should enter the "Purple Zone" while drilling activities are being conducted.** 3a. In addition, personnel and equipment that are non-essential to the advancement of the borehole will be positioned away from the rig at a distance that is at least as far as the boom is high (minimum exclusion zone of 20 feet).
	3b. CONTACT: Flying / spraying debris.	3b. Wear all required PPE (especially hand, eye, and ear protection). 3b. Maintain minimum EZ distance (i.e. swing/tip radius of rig) when rig is in operation to avoid potential line of fire hazards from flying materials or debris.
	3c. CAUGHT: Limb/extremity amputation, abrasion, and crushing.	3c. Inspect the equipment prior to use for potential pinch points. 3c. Test all emergency shutdown devices prior to drilling. 3c. Inspect drill head for worn surface or missing teeth; replace if damaged or blunt. 3c. Inspect augers, do not use if auger flight is damaged or bent.
Assess	**Analyze**	**Act**

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[1]JOB STEPS	[2]POTENTIAL HAZARDS	[3]CRITICAL ACTIONS
3. Advancement of augers for soil boring installation (Continued).		3c. Ensure all jewelry is removed, loose clothing is secured, and PPE is secured close to the body. 3c. All non-essential personnel should stay away from the immediate work area; position body out of the line-of-fire of equipment particularly when installing auger flights and steel override casings. 3c. Drillers and helpers will understand and use the "Show Me Your Hands" Policy. 3c. Spinning augers should have an exclusion zone of 20 feet when in operation.
	3d. FALL: Slip/trip/fall hazards.	3d. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 3d. Do not climb over stored materials/equipment; walk around. Practice good housekeeping. 3d. Use established pathways and walk on stable, secure ground. 3d. Use three points of contact when mounting or dismounting the rig. 3d. Remove soil cuttings to avoid a tripping hazard from developing near augers.
	3e. EXPOSURE: Inhalation of contamination / vapors.	3e. Air monitoring using a calibrated photoionization detector (PID) to periodically monitor the breathing zone of the work area. 3e. The Action Level for breathing zone air is five parts per million (sustained) as detected by the PID. 3e. If a reading of >5ppm is recorded, the Roux field personnel must temporarily cease work, instruct all Site personnel to step away from the area of elevated readings and inform the Roux PM of the condition. The Roux PM will then recommend additional appropriate precautions in accordance with the site specific health and safety plan.
	3f. EXPOSURE: Noise and dust.	3f. Wet borehole area with sprayer to minimize dust. Stand upwind and keep body positioned away from rig. 3f. Wear hearing protection while drill rig is operating and / or the noise levels exceed 85 dBA.
	3g. EXERTION: Installing well casings and lifting augers.	3g. Keep back straight and bend at the knees. 3g. Utilize team lifting for objects heavier than 50lbs. 3g. Use mechanical lifting device for odd shaped objects.
4. Installation of well materials.	**4a. CONTACT:** Installing well materials while also pulling up augers. **4b. CAUGHT:** Possible pinch or crush hazard assembling PVC and sending down the borehole. **4c. FALL:** Slip/trip/fall hazards with hand tools and materials. **4d. EXPOSURE:** Potential contamination, harmful vapors, dust, and / or noise. **4e. EXERTION:** Lifting heavy bags of materials to backfill borehole.	4a. Potential contact with augers during installation of well materials. 4a. Keep distance from augers and do not place any materials while augers are in motion. 4b. Keep all body parts out of potential pinch points while placing PVC together and sending down borehole. 4c. See 3d. 4d. See 3e and 3f. 4d. Stand upwind to avoid exposure to dust generated from packing materials. 4e. See 3g.
5. Cleaning the auger flights	**5a. CONTACT:** Cuts/scrapes or puncture wound from contacting auger.	5a. Follow "Show Me Your Hands" Procedure and make sure auger is out of gear before contacting auger with tool or hand. 5a. Pull cleaning tool across your body with handle away from body; do not push toward the auger. 5a. Do not clean more than ¾ turn around the auger at a time. 5a. Wear cut resistant and leather gloves. 5a. Always use two hands to operate cleaning tool. 5a. Inspect tool before use and remove from service if handle or metal are cracked/fatigued. 5a. Stand out of the line of fire.
6. Decontaminate equipment.	**6a. EXPOSURE / CONTACT:** To contamination (e.g., contaminated groundwater, vapors). **6b. EXPOSURE**: To chemicals in cleaning solution (including ammonia).	6a. Wear chemical-resistant disposable gloves and safety glasses. 6a. Contain decontamination water so that it does not spill. 6a. Use an absorbent pad to clean spills, if necessary. 6b. See 3e. Wear all appropriate PPE and stand upwind of any exposed cleaning solutions.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-015	DATE: 4/10/2023	☐NEW ☒REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)	
GENERIC	**Site Recon**	**Mobilization/Demobilization**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Tim Unalp	SHSO	Brian Hobbs	CHSD

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION (as needed) ☒ SAFETY SHOES: Steel Toe or composite toe	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest of high-visibility clothing; long sleeve shirt; long pants	☒ GLOVES: Leather, nitrile, and cut resistant (as needed) ☐ OTHER

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment: Varies

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilize/demobilize and establish work area	**1a. FALL:** Slip/trips/falls from obstructions, uneven terrain, weather conditions, heavy loads, and/or poor housekeeping.	1a. Use 3 points-of-contact/ensure secure footing when entering and exiting vehicle. 1a. Inspect walking path for uneven terrain, steep hills, obstructions, and/or weather-related hazards (i.e., ice, snow, and puddles) prior to mobilizing equipment. Use established pathways. Walk on stable/secure ground. 1a. Do not climb over stored materials/equipment; walk around. Practice good housekeeping; organize and store equipment neatly in one area at its lowest potential energy. 1a. Wear boots with adequate treads. 1a. Delineate unsafe areas with 42” cones, caution tape and/or flagging.
	1b. CONTACT: Personal injury and/or property damage caused by being struck by Site traffic or equipment used in Site activities.	1b. Observe and maintain the posted speed limits. 1b. When first arriving onsite, park vehicles in designated parking space and/or out of the way locations. Use parking brake on all vehicles and tire chocks on work trucks and trailers. 1b. Check in with Site Manager/Supervisor to ensure coordination with other Site activities and to discuss any special hazards. Ensure that short-service employees (SSE) are identified. 1b. Identify potential traffic sources. 1b. Wear PPE including high visibility clothing or reflective vest. 1b. Use a spotter while moving work vehicles; plan ahead to avoid backing whenever possible. 1b. Maintain a minimum exclusion zone when vehicles are in motion (i.e. greater than swing/tip radius of equipment). When backing up truck rig with an attached trailer use a second spotter if there is tight clearance simultaneously on multiple sides of the equipment or if turning angles limit driver-to-spotter visibility. 1b. Delineate work area with 42” cones, flags, caution tape, and/or other barriers. 1b. Position “Work Area” signs at Site entrances, if possible, or at either side of work area.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
		1b. Position largest vehicle to protect against oncoming traffic. 1b. Face traffic, maintain eye contact with oncoming vehicles, use a spotter, and establish a safe exit route. 1b. Observe potential overhead and ground surface features that may interfere with moving equipment. Clear the path of physical hazards prior to initiating mobilization.
	1c. CAUGHT: Personal injury from pinch points and being in line-of-fire of vehicle and/or equipment.	1c. Make sure driver has engaged parking brake and placed wheel chocks in a position to prevent movement. Be sure that vehicle is parked in front/down gradient (positioned to best block oncoming traffic) of work area. 1c. Wear leather gloves when handling any tools or equipment. Wear cut-resistant gloves (Kevlar or similar) when handling sharp objects/cutting tools/glass. 1c. Keep body parts away from line-of-fire of equipment. 1c. Always carry tools by the handles and/or designated carrier. Ensure sharp-edged tools are sheathed/secure. 1c. Remove any loose jewelry. Avoid wearing loose clothing and/or ensure loose clothing is secure. 1c. Secure all items on the equipment, tighten up any items or features that have potential to shift or break during mobilization.
	1d. OVEREXERTION: Muscle strains while lifting/carrying equipment.	1d. Use body positioning and lifting techniques that avoid muscle strain; keep back straight, lift with legs, turn with whole body, keep load close to body, and never reach with a load. 1d. Ensure that loads are balanced. Use assistance (mechanical or additional person) to carry equipment that is either unwieldy or over 50 lbs.
	1e. EXPOSURE: Personal injury from exposure to biological and environmental hazards.	1e. Inspect area to avoid contact with biological hazards (i.e. poisonous plants, stinging insects, ticks, etc.). 1e. Wear long sleeved clothes treated with Permethrin, apply insect repellant containing DEET to exposed skin, and inspect clothes and skin for ticks during and after work. 1e. Apply sunscreen (SPF 15+) if exposure to sun for 30 minutes or more is expected.
	1f. EXPOSURE: Weather related injuries.	1f. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, nausea, rapid and shallow breathing). Take breaks in cool places and hydrate as needed. 1f. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks in warm areas as needed. 1f. Wear clothing appropriate for weather and temperature conditions (e.g., rain jackets, snow pants, multiple layers). 1f. If lightning is observed, wait 30 minutes in a sheltered location (car is acceptable) before resuming work.
	1g. EXPOSURE: Personal injury from noise hazards.	1g. Wear hearing protection if sound levels exceed 85 dBA (if you must raise your voice for normal conversation).

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-019	DATE: 4/10/2023	☐NEW ☒REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Site Reconnaissance**	**Site Walk and Inspection**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Sara Barrientos	Project Geologist	Brian Hobbs	Corporate Health and Safety Director
Tim Unalp	SHSO	Joe Duminuco	Executive Vice President

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION: ear plugs as necessary ☒ SAFETY SHOES: Steel or composite toed	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: High-visibility vest or high-vis outerwear	☒ GLOVES: Leather/cut-resistant/chemical resistant ☒ OTHER: Tyvek and rubber boots as necessary, dust mask as necessary

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment: Site map, emergency contact list, documentation of urgent care/hospital routes and / or guide familiar with Site, operating cell phone or walkie-talkie if Site allows, and bug spray.

Commitment to Safety – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

SITE SECURITY: Prior to site inspection verify appropriate method to address Site Security concerns as it relates to potential criminal activity, homeless population, and/or isolation concerns. Work with the Project Principal and/or Project Manager to address appropriately.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Check in with Site contact.	**1a. CONTACT/EXPOSURE/FALL:** Personal injury caused by lack of awareness of site-specific hazards.	1a. Inquire about hazards and other activities taking place at the Site. 1a. Inform Site contact of work scope, timeline and location(s). 1a. Discuss emergency evacuation procedures and muster points with Site contact.
2. Traversing the Site	**2a. CONTACT:** Property damage and personal injury caused by obstructions/vehicles or unauthorized personnel at remote Sites.	2a. All equipment must be stowed and secured prior to moving. 2a. Maintain speed limit as posted on-site. 2a. When possible, drive on established roadways. 2a. Yield to all pedestrians. 2a. Use pull-through spots or back into parking spots. 2a. Don high visibility clothing/safety vest. If working at remote Site, add orange accessories during hunting season.
	2b. FALL: Uneven terrain and weather conditions. Overgrown shrubs and vines. Equipment in the work zone.	2b. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 2b. When possible, use established pathways and walk on stable, secure ground. 2b. Communicate traversing hazards with others.
	2c. OVEREXERTION: Muscle strain while carrying equipment.	2c. When carrying equipment to/from work area, use proper lifting techniques; keep back straight, lift with legs, keep load close to body, never reach with a load. Ensure that loads are balanced to reduce the potential for muscle strain. Use the buddy system or mechanical means to maneuver items heavier than 50-lb. If necessary, make multiple trips to carry equipment.
	2d. EXPOSURE: Biological hazards – ticks; bees/wasps; poison ivy; insects; (Ticks are most active any time the temperature is above freezing, typically from March to November.)	2d. Inspect area to avoid contact with biological hazards. 2d. Ticks: • Treat outer clothing including pants, shirts, socks, boots and hats the evening before with Permethrin (allowing at least two hours before use). • Apply DEET to exposed skin before travelling to the Site and reapply after two hours. • Check for ticks during and after work. 2d. Bees: • Use bee spray as appropriate to deter/eliminate bees.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

	2e. EXPOSURE: Heat Stress & Cold Stress. Personal injury from working in inclement weather conditions.	• Protect exposed skin with insect repellent. 2d. Poison Ivy: • Identify areas of poison ivy and spray with weed killer. Don Tyvek and rubber boots while traversing poison ivy areas. • If skin contacts poison ivy, wash skin thoroughly with soap and water. 2e. Wear sunscreen with SPF 15 or greater on exposed skin whenever 30 minutes or more of sun exposure is expected. 2e. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). Take breaks as needed. 2e. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks as needed. 2e. Wear appropriate rain gear as needed. 2e. Take frequent breaks if tired, wet, or cold/hot. Drink water. 2e. If lightning is observed, wait 30 minutes after last thunder boom/lightning bolt in a sheltered location (car acceptable) before starting work again.
3. Walking near heavy equipment and machinery.	**3a. CONTACT:** Personal injury from Site and roadway traffic. Personal injury from flying debris **3b. OVEREXERTION:** Personal injury from lifting/moving/rotating equipment. **3c. EXPOSURE:** Hearing damage from noise generating equipment/processes. Inhalation/exposure to hazardous vapors and or dust. **3d. EXPOSURE:** Working in a remote area.	3a. See 2a. 3a. Maintain an exclusion zone of at least 10'-25' feet from all engaged equipment. 3a. Keep body parts out of the line-of-fire of pinch points. 3a. Wear appropriate PPE always. 3b. See 2c. 3c. Wear hearing protection if >85 dBA. (i.e. noise levels which require you to raise your voice to communicate) 3c. Always wear leather gloves when handling any tools or equipment. 3c. Always wear appropriate PPE based off chemicals present. 3d. Use the "buddy system" whenever possible. If working alone, contact PM upon arrival/departure, as well as during work activities prior to commencing work if applicable. 3d. Always carry a communication device (i.e., cell phone, walkie-talkie) or directional (i.e., map, compass, etc.) when traversing remote areas. 3d. If available, follow Lone Worker Protocol/Procedure.
4. Working in adverse weather conditions.	**4a. EXPOSURE:** Heat Stress & Cold Stress. Personal injury from working in inclement weather conditions.	4a. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). Take breaks as needed. 4a. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks as needed. 4a. Wear appropriate rain gear as needed. 4a. Take frequent breaks if tired, wet, or cold/hot. Drink water. 4a. If lightning is observed, wait 30 minutes after last thunder boom/lightning bolt in a sheltered location (car acceptable) before starting work again.
5. Departing Site.	**5a. EXPOSURE:** Exposure to unnecessary hazards should personnel believe Roux is on-Site during an emergency and conduct a search.	5a. Sign out or notify Site contact and Roux Project Manager of your departure.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

JOB SAFETYANALYSIS Ctrl. No. GEN-020	DATE: 04/11/2023	☐NEW ☒REVISED	PAGE 1 of 2

JSA TYPE CATEGORY:	WORK TYPE:	WORK ACTIVITY (Description):	
GENERIC	**Gauging & Sampling**	**Soil Sampling**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
MaryBeth Lyons	Project Scientist	Brian Hobbs	CHSD
Tim Unalp	SHSO		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Leather, Nitrile and cut resistant
☒ HARD HAT	☐ FACE SHIELD:	☐ SUPPLIED RESPIRATOR	
☐ LIFELINE / BODY HARNESS	☒ HEARING PROTECTION: (as needed)	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	☒ OTHER: Insect repellant, sunscreen (as needed)
☒ SAFETY GLASSES			
☒ FLAME RESISTANT CLOTHING (as needed)	☒ SAFETY SHOES: Composite-toe or steel toe boots		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Recommended Equipment: 42” traffic cones, caution tape, trowel

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs.

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Secure location	**1a. CONTACT:** Personnel and vehicular traffic may enter the work area.	1a. If in an area with foot or vehicle traffic, delineate the work area with 42” traffic cones and/or caution tape to prevent exposure to traffic and inform others of work activity. 1a. Wear reflective vest and/or high visibility clothing. 1a. Face the direction of any vehicular traffic. Position vehicle to protect worker from traffic. 1a. Communicate work activity with adjacent work areas.
	1b. FALL: Tripping/falling due to uneven terrain or entry/exit from excavations.	1b. Inspect pathways and work area for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions. 1b. Use established pathways and walk on stable, secure ground. 1b. Stage equipment and tools in a convenient, stable, and orderly manner. Store equipment at lowest potential energy. 1b. Roux employees should stay 5 feet from in-progress excavations and trenches. Should entry to an excavation be required (when stabilization is complete), ladders must be employed for steep embankments, excavations, pits, and trenches.
	1c. EXPOSURE: Exposure to sun and excessive heat, possibly causing sunburn, heat exhaustion or heat stroke. Exposure to cold temperatures possibly causing cold stress. Skin burn as a result of fire, if applicable. Exposure to explosive vapors due to tank farm operations. Exposure to airborne dust due to high wind speeds. Biological hazards - ticks, bees/wasps, poison ivy, thorns, insects, etc.	1c. Wear sunscreen with an SPF 15 or greater whenever 30 minutes or more of exposure is expected. 1c. Use a tent to shade the work area from direct sunlight particularly when warm temperatures are expected. 1c. Be aware of the location of all Site personnel. 1c. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). 1c. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). 1c. Take breaks for rest and water as necessary. Move to an area that is well shaded or a climate controlled area (i.e., car, site trailer, etc.). 1c. No open flames/heat sources. 1c. Conduct air monitoring and ensure that harmul vapor concentrations are within the levels detailed in the Site Specific HASP. Follow procedures detailed in HASP for exceedances. 1c. Flame retardant clothing must be worn when specified by Site policy. 1c. Cell phones should be disabled when specified by Site policy. 1c. Pre-treat field clothing with Permethrin prior to site visit to kill ticks and insects. 1c. Wear long sleeved shirts and tuck in (or tape) pant legs into socks or boots to prevent ticks from reaching skin. 1c. Spray insect repellant containing DEET on exposed skin when working in overgrown areas of the Site. 1c. Inspect area to avoid contact with biological hazards. 1c. Wear cut-resistant gloves when handling branches, shrubs, etc. that may lie within the walking path. 1c. Wear spoggles if the average wind speeds are above 15 mph. 1c. Personnel shall examine themselves and co-worker’s outer clothing for ticks periodically when onsite. 1c. If skin comes in contact with poison ivy, wash skin thoroughly with soap and water. If rash persists after washing, immediately notify your supervisor, the OM and OHSM for possible consultation with a physician at an approved Occupational Health Clinic.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
2. Collect Soil Sample	**2a. CONTACT:** Personal injury from pinch points, cuts, and abrasions from sampling equipment tools, and material within soil sample. Personal injury from contact with moving equipment while sampling. Personal injury from contact with glass sample jars.	2a. Wear cut-resistant (i.e., Kevlar) gloves under chemical-resistant (nitrile) disposable gloves when handling soil samples and sampling jars. 2a. Where possible, use trowel or equivalent tool to avoid contact with soil. 2a. If sampling from bucket of heavy equipment, ensure all equipment is off and operator utilizes the “show me your hands” policy. 2a. See 1a.
	2b. EXPOSURE: Exposure to contamination (impacted soil) and/or lab preservatives.	2b. Wear chemical-resistant (nitrile) disposable gloves over cut resistant gloves to protect hands when handling samples; use containment material or plastic sheeting to protect surrounding areas. 2b. Wear safety glasses to protect eyes from dust or air-borne contaminants that may results from disturbing the soil. 2b. Where possible, remain upgradient from sample location if collecting soil sample from stockpile, drill rig, etc. to avoid breathing contaminant vapors, if they are present. 2b. When collecting soil sample from hand auger, put large zip lock bag over entire auger to prevent spillage of soil on to the ground. 2b. Open sample jars slowly and fill carefully to avoid contact with preservatives.
	2c. EXERTION: Exertion due to repetitive motion and ergonomics.	2c. Utilize a table or raised surface for soil sampling if multiple soil samples are going to be taken to minimize repetitive bending motion.
3. Decontaminate equipment	**3a. EXPOSURE/CONTACT:** Contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated vapors and/or soil). **3b. EXPOSURE:** Chemicals in cleaning solution including ammonia.	3a. Wear chemical-resistant (nitrile) disposable gloves and safety glasses. 3a. Use an absorbent pad to clean spills. 3a. Properly dispose of used materials/PPE in provided drums in designated drum storage area. 3a. Remain upwind of sample and avoid breathing contaminant vapors, if they are present. 3b. Wear chemical-resistant (nitrile) disposable gloves and safety glasses. 3b. Work on the upwind side of decontamination area. 3b. Use an absorbent pad to clean spills. 3b. Properly dispose of used materials/PPE in provided drums in designated drum storage area. Ensure that all drums are properly labeled and secured.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-023	DATE: 04/11/2023	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)	
Generic	**Construction**	**Spotting Heavy Machinery**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Levi Curnutte	Senior Scientist	Brian Hobbs	CHSD
Tim Unalp	SHSO		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ Particulate Respirator	☒ GLOVES: Cut resistant / leather
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER:
☒ LONG SLEEVED SHIRT	☐ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent reflective clothing	
☐ LIFELINE / BODY HARNESS	☒ SAFETY SHOES: Steel-/Composite-toe boots/shoes		
☒ SAFETY GLASSES			

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Heavy Machinery (i.e. excavator, payloader, truck, forklift, etc.), two-way radios.

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Prepare for machine activity.	**1a. CONTACT:** Obstructions in the work area may create contact hazards from machinery.	1a. Cordon off the work area with safety barrels/cones and a rigid barrier (snow fence, traffic bar, etc.). Communicate that only necessary personnel should be in the work area. Spotter and equipment operator shall enforce the **EZ.** Operator will not operate but shall remain in the hands-off mode while personnel are within the exclusion zone.
	1b. Fall : Slip/Trip/Fall	1b. Ensure that work area is flat, level and clear of any obstructions or debris before setting up work zone.
2. Spotting.	**2a. CONTACT:** Machine or load contact with personnel, property, or machinery.	2a. Discuss the specifics of the work with the operator and be clear about any hand signals that will be used. Clearly discuss the limits of the assigned work area and the machine's Exclusion Zone. Maintain Exclusion Zone. The Exclusion Zone shall be delineated by using 42-inch traffic cones/barrels and a fixed rigid barrier. 2a. The Minimum Heavy Equipment Exclusion zone is greater than the swing/tip radius of equipment. 2a. Both the spotter and equipment operators shall have 2-way radios/cellular devices on their persons to ensure audible communication in the event any changes or new hazards may arise. 2a. All workers should stay outside of the Exclusion Zone of all equipment unless operator is stopped and in "Hands Off" mode. **(This includes the spotter unless an exception has been established in the Site-specific JSA).** If the Exclusion Zone must be reduced due to work area restrictions, then the spotter and operator shall enforce the reduced Exclusion Zone. 2a. Spotters must make eye contact with the machine operator or all movement ceases until visual contact can be reestablished. 2a. Spotter shall keep an eye out for any issues with the machine the operator may not see and communicate with other work crews and spotters on behalf of the operator. 2a. If the spotter needs to take a break, he must find a replacement before leaving or have the machine stop operations. **No heavy equipment shall operate without a spotter under any circumstances.** 2a. Wear fluorescent clothing/safety vest. 2a. **Do not multitask. Only perform Spotting**

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
	2b. FALL: Slip/Trip/Fall	2b. Look where walking to identify and avoid slip/trip/fall hazards. Avoid icy and/or wet surfaces. Remove obstacles if possible. 2b. Use designated walkways during spotting whenever possible. 2b. **Do not walk backwards. Always face the direction you are walking towards.**
	2c. CAUGHT: Caught between machinery and nearby objects.	2c. **Maintain Exclusion Zone.** Do not stand between large, loose or fixed objects or structures and the machinery while it is in motion. Keep in sight of operator at all times while being aware of surrounding structures.
	2d. EXPOSURE: Inhalation of exhaust from machinery.	2d. The spotter will position him/herself upwind of the working machinery, when possible. Spotter will also inform others working within the vicinity of the EZ of proper positioning, if applicable.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-025	DATE: 04/11/2023	☐ NEW ☒ REVISED	PAGE 1 of 1

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
Generic	**General**	**Trucking**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Lauren Dolginko	Project Geologist	Brian Hobbs	CHSD
Tim Unalp	SHSO		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Leather or cut resistant
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER
☐ LONG SLEEVED SHIRT	☐ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility long sleeved clothing	
☐ LIFELINE / BODY HARNESS	☒ SAFETY SHOES: Steel-toe boots		
☒ SAFETY GLASSES			

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Heavy equipment (i.e. trucks)

COMMITMENT TO SAFETY- All personnel onsite will actively participate in Hazard recognition and mitigation throughout the day by verbalizing SPSAs.

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Set up work zone.	**1a. CONTACT:** Personal injury/property damage caused by obstruction/vehicle.	1a. Establish work zone for manifesting/paperwork by communicating with workers before task begins. Maintain a minimum **Exclusion Zone (EZ)** around all heavy equipment.
2. Loading of truck.	**2a. CONTACT:** Rolling Vehicle could cause bodily harm.	2a. All commercial vehicles without an operator must have their engines off and wheels chocked. Truck and loading area should be on level and stable ground.
	2b. CONTACT: Machine or load may crush personnel, property or machinery.	2b. All machines (Excavator, Lull, Backhoe) must have a spotter. Spotter must communicate contact hazards such as other personnel in the work area, objects in the machine's blind spot, and overhead lines to the operator. Spotter and operator should have 2-way radios or established hand signals to communicate when needed. 2b. Loads must not be swung over other vehicles or personnel. 2b. Maintain **EZ** around all equipment.
	2c. CONTACT: Load shifting during travel.	2c. Secure all loads prior to moving the truck with chains or straps or cribbing. 2c. Any loose soil or debris should be cleaned off truck sides prior to truck mobilization. 2c. All truck beds must be secured prior to traveling.
3. Dumping loads.	**3a. CONTACT:** Truck may flip sideways or backwards.	3a. All workers must stay behind and away from the side of trucks that are dumping to avoid contact with flying debris and the truck potentially tipping sideways or backwards. EZ must be maintained equal to the height of bed while lifted.
4. Exchanging paperwork with truck driver.	**4a. CONTACT/CAUGHT:** Broken bones from contact by vehicle.	4a. Truck driver should exit truck with proper PPE, using the three-point stance, and enter the established work zone to complete paperwork. If Site-specific safety prohibits drivers from exiting the truck, wait until truck is finished loading, with engine turned off, before approaching truck. 4a. Always establish eye contact with driver prior to approaching truck. 4a. Confirm sides of truck have been cleaned/brushed off prior to approaching truck.
	4b. FALL: Slip, Trip or Fall may cause muscle strains or tears, abrasions or lacerations, or broken bones.	4b. Survey walking route to identify slip/trip/fall hazards. Avoid icy/wet surfaces. Remove slip/trip/fall hazards if present. 4b. Communicate with driver and spotter prior to approaching truck. Maintain **EZ** around all heavy equipment.

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JOB SAFETY ANALYSIS	Cntrl. No. GEN-027	DATE: 04/11/2023	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Drilling**	**Pre-Drilling Clearance, Vactron and Air Knife**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Courtney Rempfer	Project Scientist	Joseph Midwig	Senior Engineer
Sara Redding	Senior Hydrogeologist	Brian Hobbs	CHSD

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☒ FACE SHIELD (While Air Knifing) ☒ HEARING PROTECTION (As needed) ☒ SAFETY SHOES: Composite toe or steel toe boots	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing; long-sleeve shirt	☒ GLOVES: Leather, Nitrile, cut-resistant ☒ OTHER: Dusk mask, insect repellant, sunscreen (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Vac-Truck or Vac Drum, Compressor, Jack Hammer, Air Knife. Circular Saw, Hand Tools, Dust Mask, Photoionization Detector, Multi Gas Meter, 42 inch safety cones and flags, Retractable Cone Bars, Caution Tape, 20 lb. Fire Extinguisher, "Work Area" Signs, Pressurized Water Sprayer

Commitment to Safety – All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

EXCLUSION ZONE: All non-essential personnel will maintain a distance of 10 feet from drilling equipment while equipment is moving/engaged

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Verify pre-clearance protocol	**1a. CONTACT:** Underground utility damage; property damage; personal injury.	1a. Confirm that (if applicable) "Call Before You Dig" and local utility companies were contacted prior to starting work in order to confirm utility mark outs. Must have a case # before digging. 1a Walk the Site to evaluate utility markings and review maps (see Site Walk Inspection JSA - GEN-019). Utilities are not always properly marked out, ensure use of observational skills through the pre-clearing checklist. 1a. Review pre-clearing checklist form and sub-surface clearance form. Pre-clearing protocol indicates that clearance must be conducted to a minimum of 5 vertical feet below ground surface or 10 vertical feet below ground surface in the critical zone using hand tools.
	1b. ENERGY SOURCE/CONTACT: Property damage; Pressurized water mains may cause lacerations or broken bones. Pressurized gas mains may explode causing serious injury, or death. Underground electric may cause severe burns, shock, or death.	1b. Pre-clearing of each soil boring/monitoring well location must be conducted to a minimum of 5 vertical feet below the ground surface (10 feet minimum for Critical Zone) using hand tools (shovel and non-metallic dig bar and hand auger) prior to drilling. Supervisor should be contacted to discuss appropriate pre-clearing depth. 1b. MUST Complete subsurface clearance checklist prior to pre-clearance.
	1c. FALL: Slip, Trip or Fall may cause muscle strains or tears, abrasions, lacerations, or broken bones.	1c. Be aware of the conditions when walking or loading equipment and working. Walk within established pathway avoiding uneven surfaces. Remove potential slip/trip/fall hazards.
2. Mobilize/demobilize and establish work area	**2a. SEE MOBILIZATION / DEMOBILIZATION JSA – GEN-015**	2a. See Mobilization / Demobilization JSA.
3. Concrete saw cutting, jack hammer and hand clearance with hand tools, air knife	**3a. CONTACT:** Flying debris striking face or body	3a Maintain 10' minimum exclusion zone. Use the required PPE (i.e., leather/cut proof gloves, safety glasses/face shield). 3a. Use anti-whip devices on compressor hoses. Ensure hose couplings are secure. 3a Wear a face shield to protect face from flying debris when using air knife. 3a. Utilize a traffic cone, cage or physical barriers over the hole during air knife activities to keep flying debris close to ground.
	3b. EXPOSURE: Inhalation/exposure to hazardous vapors and/or concrete dust, noise exposure	3b. Monitor breathing zone with a calibrated PID and/or multi-gas meter. If meters sustain readings greater than recommeneded in the HASP for the specific contaminant of concerns (COCs) the Roux field personnel must temporarily cease work, instruct all Site personnel to step away from the area of elevated readings. Contact PM. 3b. Wet concrete while using saw to minimize dust and wear dust mask to prevent inhalation. 3b. Stand upwind and keep body behind saw. Observers and helpers should avoid line-of-fire for saw blade. Always cut away from body. 3b. No open flames/heat sources.

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[2] A hazard is a potential danger. Break hazards into five types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards.

[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift." Avoid general statements such as, "be careful."

	3c. ENERGYSOURCE/CONTACT: Property damage; Pressurized water mains may cause lacerations or broken bones. Pressurized gas mains may explode causing serious injury, or death. Underground electric may cause severe burns, shock, or death.	3b. Wear hearing protection when saw, jackhammer or air compressor are in operation. Otherwise, if sound levels exceed 85 dbA, put on hearing protection. 3c. For air knifing, ensure extention/lance tip reaches the full 5 feet bgs. Air knife should be advanced **AT A MINIMUM** in all four corners of the expected boring location to find any possible arrangement of utilities. 3c. Ensure diameter of soil preclearance hole is at a **MINIMUM 2x** the diameter of any drilling or hard dig equipment that will be entering the hole. 3c. See Complete subsurface clearance protocol for information provided above.
	3d. ERGONOMICS/EXERTION: Muscle strain due to poor body positioning when handling equipment and materials	3d. Use body positioning and lifting techniques that minimizes muscle strain; keep back straight, lift with legs, keep load close to body, and never reach with a load. 3d. Ensure that loads are balanced to reduce the potential for muscle strain. 3d. Two people or a mechanical lifting aid are required when lifting objects over 50 lbs. or when the shape makes the object difficult to lift.
	3e. FALL: Tripping/falling due to uneven terrain, weather conditions, and materials/equipment stored at the Site	3e. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. Mob/Demob JSA. 3e. Do not climb over stored materials/equipment; walk around. Practice good housekeeping. 3e. Use established pathways and walk on stable, secure ground. 3e. Equipment and tools will be stored at the lowest point of potential energy and out of the walkway and immediate work area (i.e. tools should not be propped against walls or nearby equipment or vehicles). 3e. Equipment and tools that are not anticipated to be used will be returned to a storage area that is out of the immediate work area. 3e. Ensure power cords and compressed air lines are grouped when used within the work area. 3e. Pre-cleared location will be finished flush to grade as to prevent a slip/trip hazard or coned and taped off.
	3f. CAUGHT: Amputation points associated with the equipment and vacuum hose	3f. Always wear leather gloves when making connections and using hand tools; wear cut-resistant (i.e., Kevlar) gloves when handling cutting tools. 3f. Inspect the equipment prior to use for potential pinch points. 3f. Test all emergency shutdown devices prior to using equipment. 3f. Inspect saw blade for worn surface or missing teeth; switch blade if damaged or blunt. 3f. Ensure all jewelry is removed, loose clothing is secured, and PPE is secured close to the body. 3f. All non-essential personnel shall maintain a 10 foot exclusion zone; position body out of the line-of-fire of equipment. 3f. Drillers and helpers will understand and use the “Show Me Your Hands Policy”.
4. Move drum to staging area using drum cart	**4a. EXPOSURE/CONTACT:** Contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated groundwater, soil)	4a. Wear Nitrile chemical-resistant gloves under leather or cut proof gloves. 4a. Do not overfill drums. Ensure that the drum lids are attached securely. 4a. All drums will be staged in the designated storage area.
	4b. EXERTION: Muscle strain while maneuvering drums with drum cart/lift gate	4b. See 3d. Do not overfill drums. Use lift gate on back of truck to load and unload drums. Use drum dolly to move drum.
	4c. CAUGHT: Pinch points associated with handling drum lid	4c. Ensure that fingers are not placed under the lid of the drum. Wear leather gloves or cut proof gloves. Use appropriate ratchet while sealing drum lid.
5. Decontaminate equipment.	**5a. EXPOSURE/CONTACT**: To contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated groundwater, vapors).	5a. Wear chemical-resistant disposable gloves and safety glasses. 5a. Contain decontamination water so that it does not spill. 5a. Use an absorbent pad to clean spills, if necessary. 5a. Spray equipment from side angle, not straight on, to avoid backsplash. 5a. See 3b.
	5b. EXPOSURE: To chemicals in cleaning solution.	5b. See 4a. Review SDS to ensure appropriate precautions are taken and understood.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-029	DATE: 4/11/2023	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)	
GENERIC	**Preclearing/Sampling**	**Hand Augering**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Sean Owens	Senior Health & Safety Specialist	Brian Hobbs	Corporate Health & Safety Director

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Cut Resistant / Leather / Nitrile / Chemical resistant
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING: Long sleeve high visibility clothing	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Steel or composite toed		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Hand Auger Tools (buckets, rods), 5-gallon buckets, hand tools (hammer, etc)

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Drive/walk to hand clearing/hand augering location	**1a. CONTACT:** Property damage and personal injury caused by obstructions/vehicles	1a. Maintain speed limit on-site. 1a. All equipment must be stowed and secured prior to moving. 1a. Drive on established roadways. 1a. Do not back up vehicle without spotter where visibility is limited; use pull-through spots or back into parking spots; use an audible signal (horn/back-up alarm) when backing up vehicles.1c.
	1b. FALL: Personal injury from tripping/falling due to uneven terrain, weather conditions, and materials/equipment stored at portions of the Site	1b. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 1b. Do not climb over stored materials/equipment; walk around. Use established pathways and walk on stable, secure ground. 1b. Use established ramp when descending into/ascending from impoundment areas. 1b. Keep tools and equipment in a designated area. When not in use, tools and equipment must be returned to their proper storage location. Keep work area clear of obstructions.
	1c. EXERTION: Muscle strain/exhaustion while carrying equipment (i.e., hand auger, post-hole digger, shovel, pry bar)	1c. When carrying equipment to/from work area, use proper lifting techniques; keep back straight, lift with legs, keep load close to body, never reach with a load. Ensure that loads are balanced to reduce the potential for muscle strain. Use mechanical assistance or make multiple trips to carry equipment.
	1d. EXPOSURE: Exposure to sun, possibly causing sunburn Biological hazards - bees/wasps, poison oak, thorns, insects, etc.	1d. Wear sunscreen with an SPF of at least 15 whenever 30 minutes or more of exposure is expected. 1d. Inspect area to avoid contact with biological hazards. 1d. Wear cut resistant gloves when handling branches, shrubs, etc. that may lie within the walking path. 1d. Avoid any areas onsite that have poison oak.
2. Secure location	**2a. CONTACT:** Personnel and vehicular traffic may enter the work area.	2a. Delineate the work area with traffic cones and/or caution tape to prevent exposure to traffic and inform others of work activity. 2a. Wear reflective vest and/or fluorescent clothing. 2a. Face the direction of vehicular traffic. Position vehicle to protect worker from traffic. 2a. Communicate work activity with adjacent work areas.
	2b. FALL: Tripping/falling due to uneven terrain, and materials /equipment stored within the work area	2b. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment to the impoundments. 2b. Equipment and tools will be staged in a convenient, stable, and orderly manner. 2b. Equipment and tools will be stored at the lowest point of potential energy and out of the walkway and immediate work area (i.e. tools should not be propped against walls or nearby equipment or vehicles). 2b. Equipment and tools that are not anticipated to be used will be returned to an appropriate storage area that is out of the immediate work area.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.
[2] A hazard is a potential danger. Break hazards into six types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards; Energy Source – electricity, pressure, compression/tension.
[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift." Avoid general statements such as, "be careful."

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
3. Verify pre-clearance protocol; review completed Subsurface Utility Checklist and utility verification site walkthrough.	**3a. ENERGY SOURCE:** Underground utility damage; property damage; personal injury	3a. Confirm that "Call Before You Dig" and local utility companies were contacted prior to hand augering. 3a. Walk the Site to evaluate utility markings and review maps.
4. Augering/advancing borehole	**4a. EXPOSURE:** Contaminated soil/water/vapor **4b. EXERTION:** Muscle strain from lifting, bending, repetitive motion. **4c. CAUGHT:** Personal injury as a result of jewelry/loose clothing caught on equipment, well covers, machinery, hand auger, pry bar etc.. **4d. CONTACT/CAUGHT:** Pinch points, abrasions	4a. Monitor breathing zone with a PID when VOCs area concern. If vapors sustain > 5 ppm, upgrade PPE as per HASP. 4a. Wear chemical-resistant disposable gloves and safety glasses when handling impacted materials. 4a. Place excavated soil on plastic sheeting and store soil waste in designated area. 4a. Work on the upwind side of the boring. 4b. Body positioning and rotating with the auger to reduce strain. Don't twist back. 4c. No form of jewelry should be worn while on-site. 4c. Clothing must be appropriately sized so it is not loose fitting. 4d. Keep head and upper body clear when lifting hand auger, pry bar/post-hole digger. Ensure to not be overly aggressive when using pry bar. 4d. Ensure all jewelry is removed, loose clothing is secured, and PPE is secured close to the body.
5. Lithologic observation and soil sampling	**5a. EXPOSURE:** Contact with contamination (impacted soil and/or lab preservatives)	5a. Wear chemical-resistant disposable gloves to protect hands when handling samples; wear safety glasses when handling any preservatives; use containment material or plastic sheeting to protect surrounding areas. 5a. When collecting soil sample from hand auger, put large zip lock bag over entire auger to prevent spillage of soil on to the ground. 5a. Open sample jars slowly and fill carefully to avoid contact with preservatives.
6. Decontaminate equipment	**6a. EXPOSURE:** Contact with contamination (impacted soil and/or lab preservatives, decontamination solution) **6b. CONTACT/CAUGHT:** pinch points and cuts/abrasions	6a. Wear chemical-resistant disposable gloves and safety glasses. 6a. Use an absorbent pad to clean spills. 6a. Properly dispose of used materials/PPE trash bags. 6b. Keep fingers/hands out of pinch points when dis-assembling hand auger during decontamination.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

APPENDIX B

Safety Data Sheets (SDSs) for Chemicals Used

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

1 Identification of the substance/mixture and of the supplier

1.1 Product identifier

Trade Name: Alconox
Synonyms:
Product number: Alconox

1.2 Application of the substance / the mixture : Cleaning material/Detergent

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer
Alconox, Inc.
30 Glenn Street
White Plains, NY 10603
1-914-948-4040

Supplier
Not Applicable

Emergency telephone number:
ChemTel Inc
North America: 1-800-255-3924
International: 01-813-248-0585

2 Hazards identification

2.1 Classification of the substance or mixture:

In compliance with EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments.

Hazard-determining components of labeling:
Tetrasodium Pyrophosphate
Sodium tripolyphosphate
Sodium Alkylbenzene Sulfonate

2.2 Label elements:

Skin irritation, category 2.
Eye irritation, category 2A.

Hazard pictograms:



Signal word: Warning

Hazard statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements:
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with soap and water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents and container as instructed in Section 13.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Additional information: None.

Hazard description

Hazards Not Otherwise Classified (HNOC): None

Information concerning particular hazards for humans and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

3 Composition/information on ingredients

3.1 Chemical characterization : None

3.2 Description : None

3.3 Hazardous components (percentages by weight)

Identification	Chemical Name	Classification	Wt. %
CAS number: 7758-29-4	Sodium tripolyphosphate	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	12-28
CAS number: 68081-81-2	Sodium Alkylbenzene Sulfonate	Acute Tox. 4; H303 Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	8-22
CAS number: 7722-88-5	Tetrasodium Pyrophosphate	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	2-16

3.4 Additional Information : None.

4 First aid measures

4.1 Description of first aid measures

General information: None.

After inhalation:

Maintain an unobstructed airway.

Loosen clothing as necessary and position individual in a comfortable position.

After skin contact:

Wash affected area with soap and water.

Seek medical attention if symptoms develop or persist.

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.

Remove contact lens(es) if able to do so during rinsing.

Seek medical attention if irritation persists or if concerned.

After swallowing:

Rinse mouth thoroughly.

Seek medical attention if irritation, discomfort, or vomiting persists.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

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4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed:

No additional information.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

For safety reasons unsuitable extinguishing agents : None

5.2 Special hazards arising from the substance or mixture :

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Advice for firefighters

Protective equipment:

Wear protective eye wear, gloves and clothing.
Refer to Section 8.

5.4 Additional information :

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols.
Avoid contact with skin, eyes and clothing.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures :

Ensure adequate ventilation.
Ensure air handling systems are operational.

6.2 Environmental precautions :

Should not be released into the environment.
Prevent from reaching drains, sewer or waterway.

6.3 Methods and material for containment and cleaning up :

Wear protective eye wear, gloves and clothing.

6.4 Reference to other sections : None

7 Handling and storage

7.1 Precautions for safe handling :

Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.

7.2 Conditions for safe storage, including any incompatibilities :

Store in a cool, well-ventilated area.

7.3 Specific end use(s):

No additional information.

Safety Data Sheet

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Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

8 Exposure controls/personal protection





8.1 Control parameters :

7722-88-5, Tetrasodium Pyrophosphate, OSHA TWA 5 mg/m3.

8.2 Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Respiratory protection:

Not needed under normal conditions.

Protection of skin:

Select glove material impermeable and resistant to the substance.

Eye protection:

Safety goggles or glasses, or appropriate eye protection.

General hygienic measures:

Wash hands before breaks and at the end of work.
Avoid contact with skin, eyes and clothing.

9 Physical and chemical properties

Appearance (physical state, color):	White and cream colored flakes - powder	**Explosion limit lower**: **Explosion limit upper**:	Not determined or not available. Not determined or not available.
Odor:	Not determined or not available.	**Vapor pressure at 20°C**:	Not determined or not available.
Odor threshold:	Not determined or not available.	**Vapor density**:	Not determined or not available.
pH-value:	9.5 (aqueous solution)	**Relative density**:	Not determined or not available.
Melting/Freezing point:	Not determined or not available.	**Solubilities**:	Not determined or not available.
Boiling point/Boiling range:	Not determined or not available.	**Partition coefficient (n-octanol/water)**:	Not determined or not available.
Flash point (closed cup):	Not determined or not available.	**Auto/Self-ignition temperature**:	Not determined or not available.
Evaporation rate:	Not determined or not available.	**Decomposition temperature**:	Not determined or not available.

Safety Data Sheet

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Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Flammability (solid, gaseous):	Not determined or not available.	**Viscosity**:	a. Kinematic: Not determined or not available. b. Dynamic: Not determined or not available.
Density at 20°C:	Not determined or not available.		

10 Stability and reactivity

10.1 Reactivity : None

10.2 Chemical stability : None

10.3 Possibility hazardous reactions : None

10.4 Conditions to avoid : None

10.5 Incompatible materials : None

10.6 Hazardous decomposition products : None

11 Toxicological information

11.1 Information on toxicological effects :

Acute Toxicity:

Oral:

: LD50 > 5000 mg/kg oral rat - Product .

Chronic Toxicity: No additional information.

Skin corrosion/irritation:

Sodium Alkylbenzene Sulfonate: Causes skin irritation. .

Serious eye damage/irritation:

Sodium Alkylbenzene Sulfonate: Causes serious eye irritation .

Tetrasodium Pyrophosphate: Rabbit - Risk of serious damage to eyes .

Respiratory or skin sensitization: No additional information.

Carcinogenicity: No additional information.

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

NTP (National Toxicology Program): None of the ingredients are listed.

Germ cell mutagenicity: No additional information.

Reproductive toxicity: No additional information.

STOT-single and repeated exposure: No additional information.

Additional toxicological information: No additional information.

12 Ecological information

Safety Data Sheet

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Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

12.1 Toxicity:

Sodium Alkylbenzene Sulfonate: Fish, LC50 1.67 mg/l, 96 hours.
Sodium Alkylbenzene Sulfonate: Aquatic invertebrates, EC50 Daphnia 2.4 mg/l, 48 hours.
Sodium Alkylbenzene Sulfonate: Aquatic Plants, EC50 Algae 29 mg/l, 96 hours.
Tetrasodium Pyrophosphate: Fish, LC50 - other fish - 1,380 mg/l - 96 h.
Tetrasodium Pyrophosphate: Aquatic invertebrates, EC50 - Daphnia magna (Water flea) - 391 mg/l - 48 h.

12.2 Persistence and degradability: No additional information.

12.3 Bioaccumulative potential: No additional information.

12.4 Mobility in soil: No additional information.

General notes: No additional information.

12.5 Results of PBT and vPvB assessment:

PBT: No additional information.

vPvB: No additional information.

12.6 Other adverse effects: No additional information.

13 Disposal considerations

13.1 Waste treatment methods (consult local, regional and national authorities for proper disposal)

Relevant Information:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

14 Transport information

14.1 UN Number: None
ADR, ADN, DOT, IMDG, IATA

14.2 UN Proper shipping name: None
ADR, ADN, DOT, IMDG, IATA

14.3 Transport hazard classes:
ADR, ADN, DOT, IMDG, IATA

Class: None
Label: None
LTD. QTY: None

US DOT
Limited Quantity Exception: None

Bulk:
RQ (if applicable): None
Proper shipping Name: None
Hazard Class: None
Packing Group: None
Marine Pollutant (if applicable): No additional information.

Non Bulk:
RQ (if applicable): None
Proper shipping Name: None
Hazard Class: None
Packing Group: None
Marine Pollutant (if applicable): No additional information.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Comments: None	**Comments:** None
14.4 Packing group: ADR, ADN, DOT, IMDG, IATA	None
14.5 Environmental hazards :	None
14.6 Special precautions for user:	None
Danger code (Kemler):	None
EMS number:	None
Segregation groups:	None

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

14.8 Transport/Additional information:

Transport category:	None
Tunnel restriction code:	None
UN "Model Regulation":	None

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

North American

SARA

Section 313 (specific toxic chemical listings): None of the ingredients are listed.
Section 302 (extremely hazardous substances): None of the ingredients are listed.

CERCLA (Comprehensive Environmental Response, Clean up and Liability Act) Reportable

Spill Quantity: None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

Inventory: All ingredients are listed.
Rules and Orders: Not applicable.

Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Canadian

Canadian Domestic Substances List (DSL):
All ingredients are listed.

EU

REACH Article 57 (SVHC): None of the ingredients are listed.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Germany MAK: Not classified.

Asia Pacific

Australia

Australian Inventory of Chemical Substances (AICS): All ingredients are listed.

China

Inventory of Existing Chemical Substances in China (IECSC): All ingredients are listed.

Japan

Inventory of Existing and New Chemical Substances (ENCS): All ingredients are listed.

Korea

Existing Chemicals List (ECL): All ingredients are listed.

New Zealand

New Zealand Inventory of Chemicals (NZOIC): All ingredients are listed.

Philippines

Philippine Inventory of Chemicals and Chemical Substances (PICCS): All ingredients are listed.

Taiwan

Taiwan Chemical Substance Inventory (TSCI): All ingredients are listed.

16 Other information

Abbreviations and Acronyms: None

Summary of Phrases

Hazard statements:

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with soap and water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents and container as instructed in Section 13.

Manufacturer Statement:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NFPA: 1-0-0

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

HMIS: 1-0-0

SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 01/27/2015 Version 1.2

SECTION 1.Identification

Product identifier

Product number	HX0607
Product name	Hydrochloric Acid 34-37% OmniTrace®

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Reagent for research and development

Details of the supplier of the safety data sheet

Company	EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821, United States of America | General Inquiries: +1-978-715-4321 | Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)
Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2. Hazards identification

GHS Classification

Corrosive to Metals, Category 1, H290
Skin corrosion, Category 1B, H314
Serious eye damage, Category 1, H318
Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS-Labeling

Hazard pictograms



Signal Word
Danger

Hazard Statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary Statements
P234 Keep only in original container.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P321 Specific treatment (see supplemental first aid instructions on this label).
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P406 Store in corrosive resistant stainless steel container with a resistant inliner.
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution

Hazardous ingredients

Chemical Name (Concentration)
CAS-No.
hydrochloric acid (>= 30 % - < 50 %)
7647-01-0

Exact percentages are being wihtheld as a trade secret.

SECTION 4. First aid measures

Description of first-aid measures

General advice
First aider needs to protect himself.

Inhalation
After inhalation: fresh air. Call in physician.

Skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

Eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Ingestion
After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation!). Call a physician immediately. Do not attempt to neutralize.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed
Irritation and corrosion, Cough, Shortness of breath, cardiovascular disorders, Risk of blindness!

Indication of any immediate medical attention and special treatment needed
No information available.

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture
Not combustible.
Ambient fire may liberate hazardous vapors.
Fire may cause evolution of:
Hydrogen chloride gas

Advice for firefighters

Special protective equipment for fire-fighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

Environmental precautions
Do not empty into drains.

Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills.
Observe possible material restrictions (see sections 7 and 10).
Take up with liquid-absorbent and neutralizing material (e.g. Chemizorb® H^+, Art. No. 101595).
Dispose of properly. Clean up affected area.

SECTION 7. Handling and storage

Precautions for safe handling

Observe label precautions.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No metal containers.

Tightly closed.

Store at room temperature.

SECTION 8. Exposure controls/personal protection

Exposure limit(s)

Ingredients

Basis	Value	Threshold limits	Remarks
hydrochloric acid 7647-01-0			
ACGIH	Ceiling Limit Value:	2 ppm	
NIOSH/GUIDE	Ceiling Limit Value and Time Period (if specified):	5 ppm 7 mg/m³	
OSHA_TRANS	Ceiling Limit Value:	5 ppm 7 mg/m³	
Z1A	Ceiling Limit Value:	5 ppm 7 mg/m³	

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

Eye/face protection

Tightly fitting safety goggles

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other protective equipment:

Acid-resistant protective clothing.

Respiratory protection
required when vapors/aerosols are generated.
Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9. Physical and chemical properties

Physical state	liquid
Color	colorless
Odor	stinging
Odor Threshold	0.8 - 5 ppm Gaseous hydrogen chloride (HCl).
pH	< 1 at 68 °F (20 °C)
Solidification point	-30 °C
Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor pressure	190 hPa at 68 °F (20 °C)
Relative vapor density	No information available.
Density	ca.1.19 g/cm³ at 68 °F (20 °C)
Relative density	No information available.
Water solubility	at 68 °F (20 °C) soluble
Partition coefficient: n-octanol/water	Not applicable

Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	2.3 mPa.s at 59 °F (15 °C)
Explosive properties	Not classified as explosive.
Oxidizing properties	none
Ignition temperature	Not applicable
Corrosion	May be corrosive to metals.

SECTION 10. Stability and reactivity

Reactivity

Corrosive in contact with metals

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

Possibility of hazardous reactions

Exothermic reaction with:

Amines, potassium permanganate, salts of oxyhalogenic acids, semimetallic oxides, semimetallic hydrogen compounds, Aldehydes, vinylmethyl ether

Risk of ignition or formation of inflammable gases or vapors with:

carbides, lithium silicide, Fluorine

Generates dangerous gases or fumes in contact with:

Aluminum, hydrides, formaldehyde, Metals, strong alkalis, Sulfides

Risk of explosion with:

Alkali metals, conc. sulfuric acid

Conditions to avoid

Heating.

Incompatible materials

Metals, metal alloys
Gives off hydrogen by reaction with metals.

Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information

Information on toxicological effects

Likely route of exposure
Inhalation, Eye contact, Skin contact

Target Organs
Eyes
Skin
Respiratory system
Cornea

Acute oral toxicity
Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Acute toxicity estimate: 1,892 mg/kg
Calculation method

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Acute toxicity estimate: 6.41 mg/l; 4 h
Calculation method

Skin irritation
Mixture causes burns.

Eye irritation
Mixture causes serious eye damage. Risk of blindness!

Specific target organ systemic toxicity - single exposure
Target Organs: Respiratory system
Mixture may cause respiratory irritation.

Specific target organ systemic toxicity - repeated exposure
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard
Regarding the available data the classification criteria are not fulfilled.

Carcinogenicity

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Further information

After uptake:
After a latency period:
cardiovascular disorders
Handle in accordance with good industrial hygiene and safety practice.

Ingredients

hydrochloric acid
No information available.

SECTION 12. Ecological information

Ecotoxicity

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

Partition coefficient: n-octanol/water
Not applicable

Mobility in soil

No information available.

Additional ecological information
Forms corrosive mixtures with water even if diluted. Harmful effect due to pH shift.
Discharge into the environment must be avoided.

Ingredients

hydrochloric acid

Substance does not meets the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14. Transport information

Land transport (DOT)

UN number	UN 1789
Proper shipping name	HYDROCHLORIC ACID
Class	8
Packing group	II
Environmentally hazardous	--

Air transport (IATA)

UN number	UN 1789
Proper shipping name	HYDROCHLORIC ACID
Class	8
Packing group	II
Environmentally hazardous	--
Special precautions for user	no

Sea transport (IMDG)

UN number	UN 1789
Proper shipping name	HYDROCHLORIC ACID
Class	8
Packing group	II
Environmentally hazardous	--
Special precautions for user	yes
EmS	F-A S-B

SECTION 15. Regulatory information

United States of America

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ingredients

hydrochloric acid	7647-01-0	*37 %*

SARA 302

The following components are subject to reporting levels established by SARA Title III, Section 302:

Ingredients

hydrochloric acid	7647-01-0

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:
Ingredients
hydrochloric acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:
Ingredients
hydrochloric acid

DEA List I
Not listed

DEA List II
Listed
Ingredients

hydrochloric acid	7647-01-0

US State Regulations

Massachusetts Right To Know
Ingredients
hydrochloric acid

Pennsylvania Right To Know
Ingredients
hydrochloric acid

New Jersey Right To Know
Ingredients
hydrochloric acid

California Prop 65 Components
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Notification status

TSCA:	All components of the product are listed in the TSCA-inventory.
DSL:	All components of this product are on the Canadian DSL.
KOREA:	Not in compliance with the inventory

SECTION 16. Other information

Training advice
Provide adequate information, instruction and training for operators.

Labeling

Hazard pictograms



Signal Word
Danger

Hazard Statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary Statements
Prevention
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Full text of H-Statements referred to under sections 2 and 3.

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Key or legend to abbreviations and acronyms used in the safety data sheet
Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date01/27/2015

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.
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SAFETY DATA SHEET

Helium

Section 1. Identification

GHS product identifier : Helium

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046,Helium USP

Product type : Gas.

Product use : Synthetic/Analytical chemistry.

Synonym : helium (dot); Helium-4; He; o-Helium; UN 1046,Helium USP

SDS # : 001025

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

24-hour telephone : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : GASES UNDER PRESSURE - Compressed gas

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction.

Prevention : Not applicable.

Response : Not applicable.

Storage : Protect from sunlight. Store in a well-ventilated place.

Disposal : Not applicable.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046,Helium USP

Product code : 001025

CAS number/other identifiers

CAS number : 7440-59-7

Ingredient name	%	CAS number
Helium	100	7440-59-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Section 4. First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid breathing gas. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous.

Section 7. Handling and storage

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F). Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Helium	**ACGIH TLV (United States, 3/2019). Oxygen Depletion [Asphyxiant].**

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 8. Exposure controls/personal protection

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Melting point : -272.2°C (-458°F)

Boiling point : -268.9°C (-452°F)

Critical temperature : -267.9°C (-450.2°F)

Flash point : [Product does not sustain combustion.]

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : 0.14 (Air = 1) Liquid Density@BP: 7.8 lb/ft3 (125 kg/m3)

Specific Volume (ft ^{3}/lb) : 96.1538

Gas Density (lb/ft ^{3}) : 0.0104

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : 0.28

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not applicable.

Flow time (ISO 2431) : Not available.

Molecular weight : 4 g/mole

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 10. Stability and reactivity

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Section 11. Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Helium	0.28	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1046	UN1046	UN1046	UN1046	UN1046
UN proper shipping name	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED
Transport hazard class(es)	2.2 	2.2 	2.2 	2.2 	2.2 
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Additional information

DOT Classification : **Limited quantity** Yes.
Quantity limitation Passenger aircraft/rail: 75 kg. Cargo aircraft: 150 kg.

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).
Explosive Limit and Limited Quantity Index 0.125
Passenger Carrying Road or Rail Index 75

IATA : **Quantity limitation** Passenger and Cargo Aircraft: 75 kg. Cargo Aircraft Only: 150 kg.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

Section 15. Regulatory information

SARA 311/312

Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance.

State regulations

Massachusetts : This material is listed.

New York : This material is not listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Europe : This material is listed or exempted.

Japan : **Japan inventory (ENCS)**: Not determined.
Japan inventory (ISHL): Not determined.

New Zealand : This material is listed or exempted.

Philippines : This material is listed or exempted.

Republic of Korea : This material is listed or exempted.

Taiwan : This material is listed or exempted.

Thailand : Not determined.

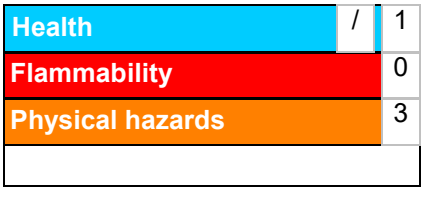
Turkey : Not determined.

United States : This material is active or exempted.

Viet Nam : This material is listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Section 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
GASES UNDER PRESSURE - Compressed gas	Expert judgment

History

Date of printing : 1/27/2021

Date of issue/Date of revision : 1/27/2021

Date of previous issue : 4/23/2018

Version : 1.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET

Flammable Gas Mixture: 1-Butene / Cis-2-Butene / Ethane / Ethylene / Isobutane / Isobutylene (Isobutene) / Isopentane / Methane / N-Butane / N-Pentane / Propane / Propylene / Trans-2-Butene

Section 1. Identification

GHS product identifier : Flammable Gas Mixture: 1-Butene / Cis-2-Butene / Ethane / Ethylene / Isobutane / Isobutylene (Isobutene) / Isopentane / Methane / N-Butane / N-Pentane / Propane / Propylene / Trans-2-Butene

Other means of identification : Not available.

Product use : Synthetic/Analytical chemistry.

SDS # : 010448

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

24-hour telephone : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE GASES - Category 1
GASES UNDER PRESSURE - Compressed gas

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Extremely flammable gas.
Contains gas under pressure; may explode if heated.
May form explosive mixtures in Air.
May displace oxygen and cause rapid suffocation.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Approach suspected leak area with caution.

Prevention : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response : Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

Storage : Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.

Disposal : Not applicable.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

CAS number : Not applicable.

Product code : 010448

Ingredient name	%	CAS number
Propane	0.0001 - 99	74-98-6
propylene	0.0001 - 99	115-07-1
methane	0.0001 - 50	74-82-8
ethane	0.0001 - 50	74-84-0
Trans-2-Butene	0.0001 - 20	624-64-6
N-Butane	0.0001 - 20	106-97-8
Cis-2-Butene	0.0001 - 20	590-18-1
isobutane	0.0001 - 10	75-28-5
Isobutylene	0.0001 - 10	115-11-7
1-Butene	0.0001 - 5	106-98-9
ethylene	0.0001 - 0.9999	74-85-1
isopentane	0.0001 - 0.9999	78-78-4
n-pentane	0.0001 - 0.9999	109-66-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Section 6. Accidental release measures

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Propane	**NIOSH REL (United States, 10/2013).** TWA: 1800 mg/m³ 10 hours. TWA: 1000 ppm 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 1800 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 1800 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.
propylene	**ACGIH TLV (United States, 1/2005).** TWA: 500 ppm 8 hours. Form: All forms **ACGIH TLV (United States, 3/2015).** TWA: 500 ppm 8 hours.
methane	Oxygen Depletion [Asphyxiant]
ethane	Oxygen Depletion [Asphyxiant]
Trans-2-Butene	**ACGIH TLV (United States, 3/2015).** TWA: 250 ppm 8 hours.
N-Butane	**NIOSH REL (United States, 10/2013).** TWA: 1900 mg/m³ 10 hours. TWA: 800 ppm 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 1900 mg/m³ 8 hours. TWA: 800 ppm 8 hours.

Section 8. Exposure controls/personal protection

	ACGIH TLV (United States, 3/2015). STEL: 1000 ppm 15 minutes.
Cis-2-Butene	**ACGIH TLV (United States, 3/2015).** TWA: 250 ppm 8 hours.
isobutane	**NIOSH REL (United States, 4/2013).** TWA: 1900 mg/m³ 10 hours. TWA: 800 ppm 10 hours. **ACGIH TLV (United States, 6/2013).** STEL: 1000 ppm 15 minutes.
Isobutylene	**ACGIH TLV (United States, 3/2015).** TWA: 250 ppm 8 hours.
1-Butene	**ACGIH TLV (United States, 3/2015).** TWA: 250 ppm 8 hours.
ethylene	**ACGIH TLV (United States, 3/2015).** TWA: 200 ppm 8 hours.
isopentane	**ACGIH TLV (United States, 3/2015).** TWA: 1000 ppm 8 hours.
n-pentane	**ACGIH TLV (United States, 3/2015).** TWA: 1000 ppm 8 hours. **NIOSH REL (United States, 10/2013).** CEIL: 1800 mg/m³ 15 minutes. CEIL: 610 ppm 15 minutes. TWA: 350 mg/m³ 10 hours. TWA: 120 ppm 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 2950 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 2250 mg/m³ 15 minutes. STEL: 750 ppm 15 minutes. TWA: 1800 mg/m³ 8 hours. TWA: 600 ppm 8 hours.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Section 8. Exposure controls/personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas.

Color : Not available.

Melting/freezing point : -105°C (-157°F) This is based on data for the following ingredient: Trans-2-Butene. Weighted average: -175.5°C (-283.9°F)

Critical temperature : Lowest known value: -82.45°C (-116.4°F) (methane).

Odor : Not available.

Odor threshold : Not available.

pH : Not available.

Flash point : Not available.

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : Highest known value: 2.1 (Air = 1) (N-Butane). Weighted average: 1.45 (Air = 1)

Gas Density (lb/ft ^{3}) : Weighted average: 0.13

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

SADT : Not available.

Viscosity : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Oxidizers

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
N-Butane	LC50 Inhalation Vapor	Rat	658000 mg/m³	4 hours
isobutane	LC50 Inhalation Vapor	Rat	658000 mg/m³	4 hours
Isobutylene	LC50 Inhalation Vapor	Rat	550000 mg/m³	4 hours
isopentane	LC50 Inhalation Vapor	Rat	280000 mg/m³	4 hours
n-pentane	LC50 Inhalation Vapor	Rat	364 g/m³	4 hours

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
propylene	-	3	-
ethylene	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
ethylene	Category 3	Not applicable.	Narcotic effects
isopentane	Category 3	Not applicable.	Narcotic effects
n-pentane	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Propane	1.09	-	low
propylene	1.77	-	low
methane	1.09	-	low
ethane	1.09	-	low
Trans-2-Butene	2.31	-	low
N-Butane	2.89	-	low
Cis-2-Butene	2.33	-	low
isobutane	2.8	-	low
Isobutylene	2.34	-	low
1-Butene	2.4	-	low
ethylene	1.13	-	low
isopentane	3	171	low
n-pentane	3.45	171	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1954	UN1954	UN1954	UN1954	UN1954
UN proper shipping name	COMPRESSED GAS, FLAMMABLE, N.O.S. (propylene, propane)	COMPRESSED GAS, FLAMMABLE, N.O.S. (propylene, propane)	COMPRESSED GAS, FLAMMABLE, N.O.S. (propylene, propane)	COMPRESSED GAS, FLAMMABLE, N.O.S. (propylene, propane)	COMPRESSED GAS, FLAMMABLE, N.O.S. (propylene, propane)
Transport hazard class(es)	2.1 	2.1 	2.1 	2.1 	2.1 
Packing group	-	-	-	-	-

Section 14. Transport information

Environment	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2). **Explosive Limit and Limited Quantity Index** 0.125 **ERAP Index** 3000 **Passenger Carrying Ship Index** Forbidden **Passenger Carrying Road or Rail Index** Forbidden	-	-	-

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) PAIR**: pentane

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act (CAA) 112 regulated flammable substances: propane; Isobutane; Trans-2-Butene; propylene; N-Butane; methane; isobutylene; ethane; Cis-2-Butene; 1-butene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Section 15. Regulatory information

Classification : Fire hazard
Sudden release of pressure

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Propane	0.0001 - 99	Yes.	Yes.	No.	No.	No.
propylene	0.0001 - 99	Yes.	Yes.	No.	No.	No.
methane	0.0001 - 50	Yes.	Yes.	No.	No.	No.
ethane	0.0001 - 50	Yes.	Yes.	No.	No.	No.
Trans-2-Butene	0.0001 - 20	Yes.	Yes.	No.	No.	No.
N-Butane	0.0001 - 20	Yes.	Yes.	No.	No.	No.
Cis-2-Butene	0.0001 - 20	Yes.	Yes.	No.	No.	No.
isobutane	0.0001 - 10	Yes.	Yes.	No.	No.	No.
Isobutylene	0.0001 - 10	Yes.	Yes.	No.	No.	No.
1-Butene	0.0001 - 5	Yes.	Yes.	No.	No.	No.
ethylene	0.0001 - 0.9999	Yes.	Yes.	No.	Yes.	No.
isopentane	0.0001 - 0.9999	Yes.	No.	No.	Yes.	No.
n-pentane	0.0001 - 0.9999	Yes.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	propylene	115-07-1	0.0001 - 99
Supplier notification	propylene	115-07-1	0.0001 - 99

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: PROPANE; ISOBUTANE; 2-BUTENE-TRANS; PROPYLENE (PROPENE); BUTANE; METHANE; 2-METHYLPROPENE; ETHANE; 2-BUTENE-CIS; 1-BUTENE

New York : None of the components are listed.

New Jersey : The following components are listed: PROPANE; Isobutane; PROPANE, 2-METHYL-; 2-BUTENE-trans; 2-BUTENE, (2E)-; PROPYLENE; 1-PROPENE; BUTANE; METHANE; ISOBUTYLENE; 1-PROPENE, 2-METHYL-; ETHANE; 2-BUTENE-cis; 2-BUTENE, (2Z)-; 1-BUTENE

Pennsylvania : The following components are listed: PROPANE; PROPANE, 2-METHYL-; 2-BUTENE, (E)-; 1-PROPENE; BUTANE; METHANE; 1-PROPENE, 2-METHYL-; ETHANE; 2-BUTENE, (Z)-; 1-BUTENE

International regulations

International lists

National inventory

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : All components are listed or exempted.

Malaysia : Not determined.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : Not determined.

Canada

Section 15. Regulatory information

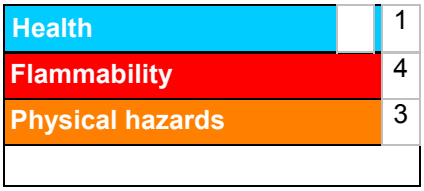
WHMIS (Canada) : Class A: Compressed gas.
Class B-1: Flammable gas.
Class D-2B: Material causing other toxic effects (Toxic).

CEPA Toxic substances: The following components are listed: Methane; Volatile organic compounds
Canadian ARET: None of the components are listed.
Canadian NPRI: The following components are listed: Propane; Butane (all isomers); Butene (all isomers); Propylene; Butane (all isomers); Volatile organic compounds; Butene (all isomers); Volatile organic compounds; Butene (all isomers); Butene (all isomers); Butene (all isomers)
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas.
Class B-1: Flammable gas.
Class D-2B: Material causing other toxic effects (Toxic).

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
Flam. Gas 1, H220 Press. Gas Comp. Gas, H280	On basis of test data On basis of test data

History

Date of printing : 3/21/2016

Date of issue/Date of revision : 3/21/2016

Section 16. Other information

Date of previous issue : No previous validation

Version : 0.01

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Manufactured for

INDUSTRIAL SCIENTIFIC

CORPORATION

1001 Oakdale Road
Oakdale, PA 15071-1500

Phone (412) 788-4353
TOLL-FREE 800-DETECTS
Fax (412) 788-8353

MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

1. PRODUCT IDENTIFICATION

CHEMICAL NAME; CLASS: NON-FLAMMABLE GAS MIXTURE

Containing One or More of the Following Components in a Nitrogen Balance Gas: Oxygen, 0.0015-23.5%; Propane, 0-1.1%; n-Pentane, 0-0.75%; n-Hexane; 0-0.48%; Carbon Monoxide, 0.0005-1.0%; Hydrogen Sulfide, 0.001-0.025%

NOTE: MIXTURES COMPRISED OF AN AIR BALANCE GAS CONTAIN BETWEEN 19.5-23.5% OXYGEN.

SYNONYMS: Not Applicable

CHEMICAL FAMILY NAME: Not Applicable

FORMULA: Not Applicable

Document Number: 50016 (Replaces ISC MSDS No.1810-2187, 1810-2343, 1810-3366, 1810-3937 1810-7219, 1810-7599, 1810-6179)

Note: The Material Safety Data Sheet is for this gas mixture supplied in cylinders with 33 cubic feet (935 liters) or less gas capacity (DOT - 39 cylinders). This MSDS has been developed for various gas mixtures with the composition of components within the ranges listed in Section 2 (Composition and Information on Ingredients). Refer to the product label for information on the actual composition of the product.

PRODUCT USE:	Calibration of Monitoring and Research Equipment
SUPPLIER/MANUFACTURER'S NAME:	CALGAZ
ADDRESS:	821 Chesapeake Drive Cambridge, MD 21613
EMERGENCY PHONE:	CHEMTREC: 1-800-424-9300
BUSINESS PHONE:	1-410-228-6400
General MSDS Information	1-713/868-0440
Fax on Demand:	1-800/231-1366

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	mole %	EXPOSURE LIMITS IN AIR					
			ACGIHTLV		OSHA		IDLH	OTHER
			TWA ppm	STEL ppm	TWA ppm	STEL ppm	ppm	ppm
Oxygen	7782-44-7	0.0015 - 23.5%	There are no specific exposure limits for Oxygen. Oxygen levels should be maintained above 19.5%.					
Propane	74-98-6	0 - 1.1%	2500	NE	1000	NE	2100	NIOSH REL: 1000 DFG MAK: 1000 ppm
n-Pentane	109-66-0	0 - 0.75%	600	750	1000 600 (Vacated 1989 PEL)	750 (Vacated 1989 PEL)	1500	NIOSH REL: TWA = 120 STEL = 610 (ceiling) 15 minutes DFG MAKs: TWA =1000 PEAK = 2•MAK, 60 min., momentary value
n-Hexane	110-54-3	0 - 0.48%	50	NE	500 50 (Vacated 1989 PEL)	NE	1100	NIOSH REL: 50 DFG MAK: 50
Hydrogen Sulfide	7783-06-4	0.001-0.025 %	10 NIC = 5	15 NIC = 5	10 (Vacated 1989 PEL)	20 (ceiling), 50 (10 min. peak, once per shift) 15 (Vacated 1989 PEL)	100	NIOSH REL: STEL = 10 (ceiling), 10 minutes DFG MAKs: TWA = 10 PEAK = 2•MAK, 10 min., momentary value
Carbon Monoxide	630-08-0	0.0005 - 1.0%	25	NE	50 35 (Vacated 1989 PEL)	200 (ceiling) (Vacated 1989 PEL)	1200	NIOSH RELs: TWA = 35 STEL = 200 ceiling DFG MAKs: TWA = 30 PEAK = 2•MAK, 15 min., average value, 1 hr interval DFG MAK Pregnancy Risk Classification: B
Nitrogen	7727-37-9	Balance	There are no specific exposure limits for Nitrogen. Nitrogen is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%.					

NE = Not Established. NIC = Notice of Intended Change See Section 16 for Definitions of Terms Used.

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-1998 format. This gas mixture has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This gas mixture is a colorless gas which has a rotten-egg odor (due to the presence of Hydrogen Sulfide). The odor cannot be relied on as an adequate warning of the presence of this gas mixture, because olfactory fatigue occurs after over-exposure to Hydrogen Sulfide. Hydrogen Sulfide and Carbon Monoxide (another component of this gas mixture) are toxic to humans in relatively low concentrations. Over-exposure to this gas mixture can cause skin or eye irritation, nausea, dizziness, headaches, collapse, unconsciousness, coma, and death. The Propane, n-Pentane, and n-Hexane components can cause anesthetic or peripheral neuropathy effects. Additionally, releases of this gas mixture may produce oxygen-deficient atmospheres (especially in small confined spaces or other poorly-ventilated environments); individuals in such atmospheres may be asphyxiated.

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE: The most significant route of over-exposure for this gas mixture is by inhalation.

INHALATION: Due to the small size of an individual cylinder of this gas mixture, no unusual health effects from over-exposure to the product are anticipated under routine circumstances of use. A significant health hazard associated with this gas mixture is the potential of inhalation of Hydrogen Sulfide, a component of this gas mixture. Such over-exposures may occur if this gas mixture is used in a confined space or other poorly-ventilated area. Over-exposures to Hydrogen Sulfide can cause dizziness, headache, and nausea. Exposure to this component can result in respiratory arrest, coma, or unconsciousness. Continuous inhalation of low concentrations of Hydrogen Sulfide may cause olfactory fatigue, so that the odor is no longer an effective warning of the presence of this gas. A summary of exposure concentrations and observed effects are as follows

CONCENTRATION OF HYDROGEN SULFIDE	OBSERVED EFFECT
0.3-30 ppm	Odor is obvious and unpleasant.
50 ppm	Eye irritation. Dryness and irritation of nose, throat.
Slightly higher than 50 ppm	Irritation of the respiratory system.
100-150 ppm	Temporary loss of smell.
200-250 ppm	Headache, vomiting nausea. Prolonged exposure may lead to lung damage. Exposures of 4-8 hours can be fatal.
300-500	Swifter onset of symptoms. Death occurs in 1-4 hours.
500 ppm	Headache, excitement, staggering, and stomach ache after brief exposure. Death occurs within 0.5 - 1 hour of exposure.
> 600 ppm	Rapid onset of unconsciousness, coma, death.
> 1000 ppm	Immediate respiratory arrest.
NOTE:	This gas mixture contains a maximum of 250 ppm Hydrogen Sulfide. The higher concentration values here are presented to delineate the complete health effects which have been observed for humans after exposure to Hydrogen Sulfide.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

HEALTH HAZARD	(BLUE)	3
FLAMMABILITY HAZARD	(RED)	0
PHYSICAL HAZARD	(YELLOW)	0

PROTECTIVE EQUIPMENT

EYES	RESPIRATORY	HANDS	BODY
See Section 8			

For Routine Industrial Use and Handling Applications

Inhalation over-exposures to atmospheres containing more than the Threshold Limit Value of Carbon Monoxide (25 ppm), another component of this gas mixture, can result in serious health consequences. Carbon Monoxide is classified as a chemical asphyxiant, producing a toxic action by combining with the hemoglobin of the blood and replacing the available oxygen. Through this replacement, the body is deprived of the required oxygen, and asphyxiation occurs.

Since the affinity of Carbon Monoxide for hemoglobin is about 200-300 times that of oxygen, only a small amount of Carbon Monoxide will cause a toxic reaction to occur. Carbon Monoxide exposures in excess of 50 ppm will produce symptoms of poisoning if breathed for a sufficiently long time. If this gas mixture is released in a small, poorly ventilated area (i.e. an enclosed or confined space), symptoms which may develop include the following:

CONCENTRATION OF CARBON MONOXIDE	OBSERVED EFFECT
All exposure levels: ..	Over-exposure to Carbon Monoxide can be indicated by the lips and fingernails turning bright red.
200 ppm:	Slight symptoms (i.e. headache) after several hours of exposure.
400 ppm:	Headache and discomfort experienced within 2-3 hours of exposure.
1,000 -2000 ppm:	Within 30 minutes, slight palpitations of the heart occurs. Within 1.5 hours, there is a tendency to stagger.
200-2500 ppm:	Within 2 hours, there is mental confusion, headaches, and nausea. Unconsciousness within 30 minutes.
> 2500 ppm:	Potential for collapse and death before warning symptoms.

Another hazard associated with this gas mixture is the potential for anesthetic and peripheral neuropathy effects after inhalation over-exposures to the Propane, n-Pentane and n-Hexane components of this gas mixture. Specific human over-exposure data are available for n-Pentane and n-Hexane, as follows:

CONCENTRATION OF n-PENTANE	OBSERVED EFFECT
Brief (10 minute) up to 5,000 ppm:	No symptoms.
Higher than 5,000 ppm:	Exhilaration, dizziness and headache can occur.
Long term:	Can cause chronic neurological disorder causing damage to the nerves in the hands and feet (peripheral neuropathy)

CONCENTRATION OF n-HEXANE	OBSERVED EFFECT
Brief (10 minute) at 1,500 ppm:	Irritation of the respiratory tract, nausea and headache.
5000 ppm:	Dizziness and drowsiness can occur.
Long term at 500 ppm:	Can affect the nerves in the arms and legs. Effects include numbing or tingling sensations in the fingers and toes, tiredness, muscle weakness, cramps and spasms in the leg, difficulty in holding objects or walking, abdominal pains, loss of appetite, weight loss. More serious exposures can cause damage to the nerves in the hands and feet (peripheral neuropathy).
Eyes and Vision:	Abnormal color perception and pigment changes in the eyes have been reported among industrial workers exposed to 423-1280 ppm for 5 years or more.
Blood Cells:	Mild forms of anemia have also been associated with exposure to hexane. These are of temporary nature.

Additionally, if mixtures of this gas mixture contain less than 19.5% Oxygen and are released in a small, poorly ventilated area (i.e. an enclosed or confined space), an oxygen-deficient environment may occur. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with various levels of oxygen are as follows:

CONCENTRATION OF OXYGEN	OBSERVED EFFECT
12-16% Oxygen:	Breathing and pulse rate increased, muscular coordination slightly disturbed.
10-14% Oxygen:	Emotional upset, abnormal fatigue, disturbed respiration.
6-10% Oxygen:	Nausea, vomiting, collapse, or loss of consciousness.
Below 6%:	Convulsive movements, possible respiratory collapse, and death.

SKIN and EYE CONTACT: The Hydrogen Sulfide component of this gas mixture may be irritating to the skin. Inflammation and irritation of the eyes can occur at very low airborne concentration of Hydrogen Sulfide (less than 10 ppm). Exposure over several hours may result in “gas eyes” or “sore eyes” with symptoms of scratchiness, irritation, tearing and burning. Above 50 ppm of Hydrogen Sulfide, there is an intense tearing, blurring of vision, and pain when looking at light. Over-exposed individuals may see rings around bright lights. Most symptoms disappear when exposure ceases. However, in serious cases, the eye can be permanently damaged.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms. Over-exposure to this gas mixture may cause the following health effects:

ACUTE: Due to the small size of the individual cylinder of this gas mixture, no unusual health effects from exposure to the product are anticipated under routine circumstances of use. However, the Hydrogen Sulfide and Carbon Monoxide components of this gas mixture are toxic to humans. Over-exposure to this gas mixture can cause nausea, dizziness, headaches, collapse, unconsciousness, coma, and death. Due to the presence of Hydrogen Sulfide, over-exposures to this gas mixture can also irritate the skin and eyes; severe eye contamination can result in blindness.

Inhalation over-exposures to Propane, n-Pentane, and n-Hexane can cause anesthetic effects and motor neuropathy (i.e. pain and tingling in feet and hands).

3. HAZARD IDENTIFICATION (Continued)

CHRONIC: Abnormal color perception and pigment changes in the eyes have been reported among persons exposed to 420 -1300 ppm of n-Hexane for five years. Additionally, long-term exposure to low levels of n-Hexane or n-Pentane can affect the nerves in the arms and legs. Effects include numbing or tingling sensation, tiredness, cramps, spasms in legs, difficulty holding objects or walking, loss of appetite and weight loss. Pentane isomers, such as n-Pentane, and Propane can cause sensitization of the heart to epinephrine. Refer to Section 11 (Toxicology Information) for additional information on the components of this gas mixture.

TARGET ORGANS: ACUTE: Respiratory system, blood system, central nervous system, cardiovascular system. CHRONIC: Reproductive system, cardiovascular system.

4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS GAS MIXTURE WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus must be worn.

No unusual health effects are anticipated after exposure to this gas mixture, due to the small cylinder size. If any adverse symptom develops after over-exposure to this gas mixture, remove victim(s) to fresh air as quickly as possible. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation if necessary.

Victim(s) who experience any adverse effect after over-exposure to this gas mixture must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of the label and the MSDS to physician or other health professional with victim(s).

SKIN EXPOSURE: If irritation of the skin develops after exposure to this gas mixture, immediately begin decontamination with running water. Minimum flushing is for 15 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Victim must seek immediate medical attention.

EYE EXPOSURE: If irritation of the eye develops after exposure to this gas mixture, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing respiratory conditions may be aggravated by over-exposure to this gas mixture. Carbon Monoxide, a component of this gas mixture, can aggravate some diseases of the cardiovascular system, such as coronary artery disease and angina pectoris. Because of the presence of Hydrogen Sulfide, n-Hexane or n-Pentane in this gas mixture, central nervous system conditions, eye disorders, or skin problems may be aggravated by over-exposure to this gas mixture.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate over-exposure. Hyperbaric oxygen is the most efficient antidote to Carbon Monoxide poisoning, the optimum range being 2-2.5 atm. A special mask, or, preferably, a compression chamber to utilize oxygen at these pressures is required. Avoid administering stimulant drugs. Be observant for initial signs of pulmonary edema in the event of severe inhalation over-exposures.

5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): Not applicable.

Upper (UEL): Not applicable.

FIRE EXTINGUISHING MATERIALS: Non-flammable gas mixture. Use extinguishing media appropriate for surrounding fire.

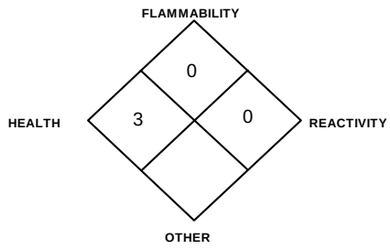
UNUSUAL FIRE AND EXPLOSION HAZARDS: This gas mixture contains toxic gases, Hydrogen Sulfide and Carbon Monoxide, and presents an extreme health hazard to firefighters. This gas mixture is not flammable; however, containers, when involved in fire, may rupture or burst in the heat of the fire.

Explosion Sensitivity to Mechanical Impact: Not Sensitive.

Explosion Sensitivity to Static Discharge: Not Sensitive.

SPECIAL FIRE-FIGHTING PROCEDURES: Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment.

NFPA RATING



6. ACCIDENTAL RELEASE MEASURES

LEAK RESPONSE: Due to the small size and content of the cylinder, an accidental release of this gas mixture presents significantly less risk of over-exposure to Hydrogen Sulfide and Carbon Monoxide, the toxic components of this gas mixture, and other safety hazards related to the remaining components of this gas mixture, than a similar release from a larger cylinder. However, as with any chemical release, extreme caution must be used during emergency response procedures. In the event of a release in which the atmosphere is unknown, and in which other chemicals are potentially involved, evacuate immediate area. Such releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a leak, clear the affected area, protect people, and respond with trained personnel.

For emergency disposal, secure the cylinder and slowly discharge the gas to the atmosphere in a well-ventilated area or outdoors. Allow the gas mixture to dissipate. If necessary, monitor the surrounding area (and the original area of the release) for Hydrogen Sulfide, Carbon Monoxide, and Oxygen. Hydrogen Sulfide and Carbon Monoxide level must be below exposure level listed in Section 2 (Composition and Information on Ingredients) and Oxygen levels must be above 19.5% before non-emergency personnel are allowed to re-enter area.

If leaking incidentally from the cylinder, contact your supplier.

7. HANDLING and USE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms, due to olfactory fatigue or oxygen deficiency. Do not attempt to repair, adjust, or in any other way modify cylinders containing a gas mixture with Hydrogen Sulfide or Carbon Monoxide. If there is a malfunction or another type of operational problem, contact nearest distributor immediately. Eye wash stations/safety showers should be near areas where this gas mixture is used or stored. All work operations should be monitored in such a way that emergency personnel can be immediately contacted in the event of a release. All work practices should minimize releases of Hydrogen Sulfide and Carbon Monoxide-containing gas mixtures.

STORAGE AND HANDLING PRACTICES: Cylinders should be firmly secured to prevent falling or being knocked-over. Cylinders must be protected from the environment, and preferably kept at room temperature (approximately 21°C, 70°F). Cylinders should be stored in dry, well-ventilated areas, away from sources of heat, ignition, and direct sunlight. Protect cylinders against physical damage.

Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time. These cylinders are not refillable. **WARNING! Do not refill DOT 39 cylinders. To do so may cause personal injury or property damage.**

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: WARNING! Compressed gases can present significant safety hazards. During cylinder use, use equipment designed for these specific cylinders. Ensure all lines and equipment are rated for proper service pressure.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely. Always use product in areas where adequate ventilation is provided.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: No special ventilation systems or engineering controls are needed under normal circumstances of use. As with all chemicals, use this gas mixture in well-ventilated areas. If this gas mixture is used in a poorly-ventilated area, install automatic monitoring equipment to detect the levels of Oxygen, Hydrogen Sulfide, and Carbon Monoxide.

RESPIRATORY PROTECTION: No special respiratory protection is required under normal circumstances of use. Use supplied air respiratory protection if Carbon Monoxide levels exceed the exposure levels given in Section 2 (Composition and Information on Ingredients) or if oxygen levels are below 19.5%, or if either level is unknown during emergency response to a release of this gas mixture. If respiratory protection is required for emergency response to this gas mixture, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134) or equivalent State standards. The following NIOSH respiratory protection recommendations for Hydrogen Sulfide and Carbon Monoxide are provided for further information.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION (Continued)

NIOSH/OSHA RECOMMENDATIONS FOR HYDROGEN SULFIDE CONCENTRATIONS IN AIR:

Up to 100 ppm: Powered air-purifying respirator with cartridge(s) to protect against hydrogen sulfide; or gas mask with canister to protect against hydrogen sulfide; or SAR; or full-facepiece SCBA.

Emergency or Planned Entry into Unknown Concentration or IDLH Conditions: Positive pressure, full-facepiece SCBA; or positive pressure, full-facepiece SAR with an auxiliary positive pressure SCBA.

Escape: Gas mask with canister to protect against hydrogen sulfide; or escape-type SCBA

NOTE: The IDLH concentration for Hydrogen Sulfide is 100 ppm.

NIOSH/OSHA RECOMMENDATIONS FOR CARBON MONOXIDE CONCENTRATIONS IN AIR:

Up to 350 ppm Supplied Air Respirator (SAR)

Up to 875 ppm Supplied Air Respirator (SAR) operated in a continuous flow mode.

Up to 1200 ppm Gas mask with canister to protect against carbon monoxide; or full-facepiece SCBA; or full-facepiece Supplied Air Respirator (SAR).

Emergency or Planned Entry into Unknown Concentration or IDLH Conditions: Positive pressure, full-facepiece SCBA; or positive pressure, full-facepiece Supplied Air Respirator (SAR) with an auxiliary positive pressure SCBA.

Escape: Gas mask with canister to protect against carbon monoxide; or escape-type SCBA.

NOTE: End of Service Life Indicator (ESLI) required for gas masks.

EYE PROTECTION: Safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: No special protection is needed under normal circumstances of use. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: No special protection is needed under normal circumstances of use. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

The following information is for Nitrogen, the main component of this gas mixture.

GAS DENSITY @ 32°F (0°C) and 1 atm: 0.072 lbs/ ft^3 (1.153 kg/m^3)

FREEZING/MELTING POINT @ 10 psig: -210°C (-345.8°F)

BOILING POINT: -195.8°C (-320.4°F)

SPECIFIC GRAVITY (air = 1) @ 70°F (21.1°C): 0.906

pH: Not applicable.

SOLUBILITY IN WATER vol/vol @ 32°F (0°C) and 1 atm: 0.023

MOLECULAR WEIGHT: 28.01

EVAPORATION RATE (nBuAc = 1): Not applicable.

EXPANSION RATIO: Not applicable.

ODOR THRESHOLD: Not applicable.

SPECIFIC VOLUME (ft^3/lb): 13.8

VAPOR PRESSURE @ 70°F (21.1°C) psig: Not applicable.

COEFFICIENT WATER/OIL DISTRIBUTION: Not applicable.

The following information is for the gas mixture.

APPEARANCE AND COLOR: This gas mixture is a colorless gas which has an rotten egg-like odor, due to the presence of Hydrogen Sulfide.

HOW TO DETECT THIS SUBSTANCE (warning properties): Continuous inhalation of low concentrations of Hydrogen Sulfide (a component of this gas mixture) may cause olfactory fatigue, so that there are no distinct warning properties. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation. Wet lead acetate paper can be used for leak detection. The paper turns black in the presence of Hydrogen Sulfide. Cadmium chloride solutions can also be used. Cadmium solutions will turn yellow upon contact with Hydrogen Sulfide.

10. STABILITY and REACTIVITY

STABILITY: Normally stable in gaseous state.

DECOMPOSITION PRODUCTS: The thermal decomposition products of Propane, n-Hexane, and n-Pentane include carbon oxides. The decomposition products of Hydrogen Sulfide include water and sulfur oxides. The other components of this gas mixture do not decompose, per se, but can react with other compounds in the heat of a fire.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Titanium will burn in Nitrogen (the main component of this gas mixture). Lithium reacts slowly with Nitrogen at ambient temperatures. Components of this gas mixture (Hydrogen Sulfide, Propane, n-Pentane, n-Hexane) are also incompatible with strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride). Carbon Monoxide is mildly corrosive to nickel and iron (especially at high temperatures and pressures). Hydrogen Sulfide is corrosive to most metals, because it reacts with these substances to form metal sulfides.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Contact with incompatible materials. Cylinders exposed to high temperatures or direct flame can rupture or burst.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following toxicology data are available for the components of this gas mixture:

NITROGEN: There are no specific toxicology data for Nitrogen. Nitrogen is a simple asphyxiant, which acts to displace oxygen in the

n-PENTANE:

LD_{50} (intravenous, mouse) = 446 mg/kg.

LC_{50} (inhalation, rat) = 364 g/m^3/4 hours

LCLo (inhalation, mouse) = 325 g/m^3/2 hours

n-HEXANE:

Eye, rabbit = 10 mg/ mild

TCLo (inhalation, rat) = 10,000 ppm/7 hr.

TCLo (inhalation, rat) = 5000 ppm/20 hours; teratogenic effects

LD50 (oral, rat) = 28710 mg/kg

LDLo (intraperitoneal, rat) = 9100 mg/kg

LCLo (inhalation, mouse) = 120,000 mg/kg

LD50 (rat, oral): 28,710 mg/kg

ACUTE INHALATION (mouse): 30,000 ppm, narcosis within 30 to 60 minutes; 35,000-40,000 ppm, convulsions and death.

DERMAL (rabbit): 2 to 5 ml/kg for 4 hours resulted in restlessness and discoordination,; death occurred at 5 ml/kg.

HYDROGEN SULFIDE:

LCLo (inhalation, human) = 600 ppm/30 minutes

LDLO (inhalation, man) = 5.7 mg/kg; central nervous system, pulmonary effects

n-HEXANE (continued):

CHRONIC INHALATION (rat): 400-600 ppm, 5 days/week, peripheral neuropathy in 45 days; 850 ppm for 143 days, loss of weight and degeneration of the sciatic nerve. (mouse): 250 ppm, peripheral neuropathy within 7 months; no effects at 100 ppm.

PROPANE:

Long-Term Inhalation: No toxicity or abnormalities were observed when monkeys were exposed to approximately 750 ppm for 90 days. Similar results were obtained when monkeys were exposed to an aerosol spray containing 65% propane and isobutane.

CARBON MONOXIDE:

TCLo (inhalation, mouse) = 65 ppm/24 hours (7-18 preg): rep. effects

TCLo (inhalation, mouse) = 8 pph/1 hour (female 8D post): ter. effects

HYDROGEN SULFIDE (continued):

LCLo (inhalation, human) = 800 ppm/5 minutes

LC_{50} (inhalation, rat) = 444 ppm

CARBON MONOXIDE (continued):

TCLo (inhalation, human) = 600 mg/m^3/10 minutes

LCLo (inhalation, man) = 4000 ppm/30 minutes

TCLo (inhalation, man) = 650 ppm/45 minutes: central nervous system and blood system effects.

LCLo (inhalation, human) = 5000 ppm/5 minutes

LCLo (inhalation, dog) = 4000 ppm/46 minutes

LCLo (inhalation, rabbit) = 4000 ppm

LC_{50} (inhalation, rat) = 1811 ppm/4 hours

LC_{50} (inhalation, guinea pig) = 2450 ppm/4 hours

LC_{50} (inhalation, guinea pig) = 5718 ppm/4 hours

LCLo (inhalation, mammal) = 5000 ppm/5 minutes

LD_{50} (inhalation, wild bird) = 1334 ppm

HYDROGEN SULFIDE (continued):

LC_{50} (inhalation, mouse) = 673 ppm/1 hour

LCLo (inhalation, mammal) = 800 ppm/5 minutes

SUSPECTED CANCER AGENT: The components of this gas mixture are not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, and IARC; therefore, they are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

IRRITANCY OF PRODUCT: The Hydrogen Sulfide component of this gas mixture, is irritating to the eyes, and may be irritating to the skin.

SENSITIZATION OF PRODUCT: The components of this gas mixture are not known to be skin or respiratory sensitizers. Pentane isomers (i.e. n-Pentane) and Propane can cause cardiac sensitization to epinephrine.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this gas mixture on the human reproductive system.

Mutagenicity: No mutagenicity effects have been described for the components of this gas mixture.

Embryotoxicity: This gas mixture contains components that may cause embryotoxic effects in humans; however, due to the small total amount of the components, embryotoxic effects are not expected to occur.

Teratogenicity: This gas mixture is not expected to cause teratogenic effects in humans due to the small cylinder size and small total amount of all components. The Carbon Monoxide component of this gas mixture which exists up to 1%, can cause teratogenic effects in humans. Severe

11. TOXICOLOGICAL INFORMATION (continued)

exposure to Carbon Monoxide during pregnancy has caused adverse effects and the death of the fetus. In general, maternal symptoms are an indicator of the potential risk to the fetus since Carbon Monoxide is toxic to the mother before it is toxic to the fetus.

Reproductive Toxicity: The components of this gas mixture are not expected to cause adverse reproductive effects in humans.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURE INDICES (BEIs): Biological Exposure Indices (BEIs) have been determined for the components of this gas mixture, as follows:

CHEMICAL DETERMINANT	SAMPLING TIME	BEI
CARBON MONOXIDE • Carboxyhemoglobin in blood • Carbon monoxide in end-exhaled air	 • End of shift • End of shift	 • 3.5% of hemoglobin • 20 ppm
n-HEXANE • 2,5-Hexanedione in urine • n-Hexane in end-exhaled air	 • End of shift	 • 5 mg/g creatinine

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: The gas will be dissipated rapidly in well-ventilated areas. The following environmental data are applicable to the components of this gas mixture.

OXYGEN: Water Solubility = 1 volume Oxygen/32 volumes water at 20°C. Log K_{ow} = -0.65

PROPANE: Log K_{ow} = 2.38. Water Solubility = 62.4 ppm, 25°C. Propane is readily degraded by soil bacteria.

PENTANE: Log K_{ow} = 3.39. Water Solubility = 38.5 mg/L. LOG BCF (n-pentane) = calculated, 1.90 and 2.35, respectively. Photolysis, hydrolysis, and bioconcentration are not anticipated to be important fate processes. Biodegradation and soil adsorption are anticipated to be more important processes for this compound.

n-HEXANE: Log K_{ow} = 3.90-4.11. Water Solubility = 9.5 mg/L. Estimated Bioconcentration Factor =2.24 and 2.89. Bioconcentration in aquatic organisms is low. Hexane is volatile. Rapid volatilization from water and soil is anticipated for this compound. Hexane will float in slick on surface of the water

HYDROGEN SULFIDE: Water Solubility = 1 g/242 mL at 20°C.

CARBON MONOXIDE: Water solubility = 3.3 ml/100 cc at 0 °C, 2.3 ml at 20°C.

NITROGEN: Water Solubility = 2.4 volumes Nitrogen/100 volumes water at 0°C; 1.6 volumes Nitrogen/100 volumes water at 20°C.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No evidence is currently available on this gas mixture's effects on plant and animal life. The Hydrogen Sulfide and Carbon Monoxide components of this gas mixture, can be deadly to exposed animal life, producing symptoms similar to those experienced by humans. This gas mixture may also be harmful to plant life.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on the effects of this gas effects on aquatic life. The presence of more than a trace of Carbon Monoxide is a hazard to fish. The following aquatic toxicity data are available for the Hydrogen Sulfide component of this gas mixture.

TLm (Asellussp) = 0.111 mg/L/96 hour
TLm (Cranfgonyx sp) =1.07 mg/L/96 hour
TLm (Gammarrus) = 0.84 mg/L/96 hour
LC_{50} (fly inhalation) = 380 mg/m^3/960 minutes
LC_{50} (fly inhalation) = 1500 mg/m^3/7 minutes
TLm (Lepomis macrochirus, bluegill sunfish) = 0.0478 mg/L/96 hour
TLm (Lepomis macrochirus, bluegill sunfish) = 0.0448 mg/L/96 hour at 21-22 °C
TLm (Pimephlaes promelas, fathead minnow) = 0.0071-0.55 mg/L/96 hour
TLm (Salvenilis foninalis, brook trout) = 0.0216-0.038 mg/L/96 hour at 8-12.5 °C

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Cylinders with undesired residual product may be safely vented outdoors with the proper regulator. For further information, refer to Section 16 (Other Information).

14. TRANSPORTATION INFORMATION

THIS GAS MIXTURE IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Compressed gases, n.o.s. (*Oxygen, Nitrogen)*or the gas component with the next highest concentration next to Nitrogen.

HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas)

UN IDENTIFICATION NUMBER: UN 1956

PACKING GROUP: Not Applicable

DOT LABEL(S) REQUIRED: Class 2.2 (Non-Flammable Gas)

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000): 126

MARINE POLLUTANT: The components of this gas mixture are not classified by the DOT as Marine Pollutants (as defined by 49 CFR 172.101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards. If transporting these cylinders in vehicles, ensure these cylinders are not exposed to extremely high temperatures (as may occur in an enclosed vehicle on a hot day). Additionally, the vehicle should be well-ventilated during transportation.

Note: DOT 39 Cylinders ship in a strong outer carton (overpack). Pertinent shipping information goes on the outside of the overpack. DOT 39 Cylinders do not have transportation information on the cylinder itself.

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This gas is considered as Dangerous Goods, per regulations of Transport Canada.

PROPER SHIPPING NAME: Compressed gases, n.o.s. (*Oxygen, Nitrogen)*or the gas component with the next highest concentration next to Nitrogen.

HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas)

UN IDENTIFICATION NUMBER: UN 1956

PACKING GROUP: Not Applicable

HAZARD LABEL: Class 2.2 (Non-Flammable Gas)

SPECIAL PROVISIONS: None

EXPLOSIVE LIMIT AND LIMITED QUANTITY INDEX: 0.12

ERAP INDEX: None

PASSENGER CARRYING SHIP INDEX: None

PASSENGER CARRYING ROAD VEHICLE OR PASSENGER CARRYING RAILWAY VEHICLE INDEX: 75

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000): 126

NOTE: Shipment of compressed gas cylinders via Public Passenger Road Vehicle is a violation of Canadian law (Transport Canada Transportation of Dangerous Goods Act, 1992).

15. REGULATORY INFORMATION

ADDITIONAL U.S. REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: This gas is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows:

COMPONENT	SARA 302 (40 CFR 355, Appendix A)	SARA 304 (40 CFR Table 302.4)	SARA 313 (40 CFR 372.65)
n-Hexane	NO	YES	YES
Hydrogen Sulfide	YES	YES	YES

15. REGULATORY INFORMATION (Continued)

U.S. SARA THRESHOLD PLANNING QUANTITY: Section 302 EHS TPQ = Hydrogen Sulfide = 500 lbs (227 kg);
U.S. TSCA INVENTORY STATUS: The components of this gas mixture are listed on the TSCA Inventory.
U.S. CERCLA REPORTABLE QUANTITY (RQ): Hexane = 5000 lb (2270 kg); Hydrogen Sulfide = 100 lbs (45.4 lb)
OTHER U.S. FEDERAL REGULATIONS:

- Hydrogen Sulfide, Carbon Monoxide, Propane, n-Pentane and n-Hexane are subject to the reporting requirements of CFR 29 1910.1000.
- Hydrogen Sulfide, Propane and n-Pentane are subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for each of these gases is 10,000 pounds and so this mixture will not be affected by the regulation.
- Depending on specific operations involving the use of this gas mixture, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Hydrogen Sulfide is listed in Appendix A of this regulation. The Threshold Quantity for Hydrogen Sulfide under this regulation is 1500 lbs.
- This gas mixture does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82).
- Nitrogen, Oxygen and n-Hexane are not listed Regulated Substances, per 40 CFR, Part 68, of the Risk Management for Chemical Releases. Hydrogen Sulfide is listed under this regulation in Table 1 as a Regulated Substance (Toxic Substance), in quantities of 10,000 lbs (4,553 kg) or greater. Carbon Monoxide, Propane and n-Pentane are listed under this regulation in Table 3, as Regulated Substances (Flammable), in quantities of 10,000 lbs (4,553 kg) or greater, and so this mixture will not be affected by the regulation.

U.S. STATE REGULATORY INFORMATION: The components of this gas mixture are covered under the following specific State regulations:

Alaska - Designated Toxic and Hazardous Substances: Carbon Monoxide, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
California - Permissible Exposure Limits for Chemical Contaminants: Carbon Monoxide, Nitrogen, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
Florida - Substance List: Oxygen, Carbon Monoxide, n-Pentane, n-Hexane, Hydrogen Sulfide.
Illinois - Toxic Substance List: Carbon Monoxide, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
Kansas - Section 302/313 List: No.
Massachusetts - Substance List: Oxygen, Carbon Monoxide, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
Michigan - Critical Materials Register: No.
Minnesota - List of Hazardous Substances: Carbon Monoxide, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
Missouri - Employer Information/Toxic Substance List t: n-Pentane, n-Hexane, Propane, Hydrogen Sulfide.
New Jersey - Right to Know Hazardous Substance List: Oxygen, Carbon Monoxide, Nitrogen, Propane, n-Pentane, n-Hexane.
North Dakota - List of Hazardous Chemicals, Reportable Quantities: Hydrogen Sulfide.
Pennsylvania - Hazardous Substance List: Oxygen, Carbon Monoxide, Nitrogen, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
Rhode Island - Hazardous Substance List: Oxygen, Carbon Monoxide, Nitrogen, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
Texas - Hazardous Substance List: n-Pentane, n-Hexane, Propane, Hydrogen Sulfide.
West Virginia - Hazardous Substance List: n-Pentane, n-Hexane, Propane, Hydrogen Sulfide.
Wisconsin - Toxic and Hazardous Substances: n-Pentane, n-Hexane, Propane, Hydrogen Sulfide

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): The Carbon Monoxide component of this gas mixture is on the California Proposition 65 lists as a chemical known to the State of California to cause birth defects or other reproductive harm.
ADDITIONAL CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this gas mixture are on the Canadian DSL Inventory.
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: The components of this gas mixture are not on the CEPA Priorities Substances List.
CANADIAN WHMIS CLASSIFICATION: This gas mixture is categorized as a Controlled Product, Hazard Classes A and D2A, as per the Controlled Product Regulations.

16. OTHER INFORMATION

INFORMATION ABOUT DOT-39 NRC (Non-Refillable Cylinder) PRODUCTS

DOT 39 cylinders ship as hazardous materials when full. Once the cylinders are relieved of pressure (empty) they are not considered hazardous material or waste. Residual gas in this type of cylinder is not an issue because toxic gas mixtures are prohibited. Calibration gas mixtures typically packaged in these cylinders are Nonflammable n.o.s., UN 1956. A small percentage of calibration gases packaged in DOT 39 cylinders are flammable or oxidizing gas mixtures.

For disposal of used DOT-39 cylinders, it is acceptable to place them in a landfill if local laws permit. Their disposal is no different than that employed with other DOT containers such as spray paint cans, household aerosols, or disposable cylinders of propane (for camping, torch etc.). When feasible, we recommended recycling for scrap metal content. CALGAZ will do this for any customer that wishes to return cylinders to us prepaid. All that is required is a phone call to make arrangements so we may anticipate arrival. Scrapping cylinders involves some preparation before the metal dealer may accept them. We perform this operation as a service to valued customers who want to participate.

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information about the handling of compressed gases can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 1725 Jefferson Davis Highway, Suite 1004, Arlington, VA 22202-4102. Telephone: (703) 412-0900.

P-1 *"Safe Handling of Compressed Gases in Containers"*
AV-1 *"Safe Handling and Storage of Compressed Gases"*
"Handbook of Compressed Gases"

PREPARED BY: CHEMICAL SAFETY ASSOCIATES, Inc.
PO Box 3519, La Mesa, CA 91944-3519
619/670-0609

Fax on Demand: 1-800/231-1366

AIR LIQUIDE™

This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this gas mixture. To the best of CALGAZ knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

Heat Illness Prevention Program

HEAT ILLNESS
PREVENTION PROGRAM

CORPORATE HEALTH AND SAFETY DIRECTOR	:	**Brian Hobbs, CIH, CSP**
EFFECTIVE DATE	:	**10/2019**
REVISION DATE	:	**03/2024**
REVISION NUMBER	:	**3**

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1. PURPOSE

Roux Associates, Inc. and its affiliated **companies**, Roux Environmental Engineering and Geology, D.P.C, and Remedial Engineering (collectively, "Roux") has established this heat illness prevention program to assist in preventing workplace accidents, injuries, and illnesses associated with temperature extremes. Roux is committed to taking every precaution to protect employees who might be exposed to heat stress, including establishing safe work practices, heat illness prevention controls, and emergency preparedness, which will be detailed in this plan.

2. SCOPE AND APPLICABILITY

Roux's Heat Illness Prevention Program applies to all employees who may be exposed to heat stress in the field.

3. ROLES AND RESPONSIBILITIES

The Heat Illness Prevention Program Administrator for Roux is the Corporate Health and Safety Director (CHSD), Brian Hobbs, CIH, CSP. The daily administration of the program is delegated to the Operations Manager (OM) and Office Health and Safety Manager (OHSM). The CHSD has the authority, responsibility, and overall accountability for the comprehensive implementation of this program.

All managers and supervisors shall implement and maintain the heat illness prevention program in work areas where there is a potential for heat stress.

Management Responsibilities

Management (i.e., Project Managers, Project Principals, OM) must provide the following to promote compliance and foster a good safety culture:

- Comply with applicable standards.
- Inform employees of the provisions of the heat illness prevention program and ensure understanding.
- Provide sufficient water, shade, rest areas, and other heat illness controls for employees.
- Assist with establishing work practices to minimize heat stress risks, such as acclimatization, required rest periods, employee monitoring, and strategic scheduling.
- Encourage employees to report hazardous conditions or heat illness symptoms.
- Provide training to any employee who could possibly be exposed to the risk of heat illness.

Employee Responsibilities

Employees are expected to actively participate in the organization's heat illness prevention program, which includes the following responsibilities:

- Receive appropriate training with regard to heat stress.
- Understand core concepts of heat illness prevention and follow guidelines to mitigate risks.
- Recognize the signs and symptoms of heat illness and immediately report them.
- Cooperate with workplace inspections and incident investigations.

Effective Communication

All Roux employees shall be accountable for ensuring there is effective communication with both the field team and their subcontractors. Communication between Roux employees project leads (e.g., Project Principal, Project Managers) and subcontractors (if applicable) will be established and maintained so that employees can quickly

contact should there be a change in condition or someone at the Site exhibits signs/symptoms of heat stress. These types of incidents would follow Roux's Incident Investigation and Reporting Management Program 2.12 and Roux's Injury Illness Prevention Program 2.22.

4. HAZARD IDENTIFICATION AND ASSESSMENT

Prior to scheduled fieldwork, the project team shall ensure a hazard assessment is conducted as it relates to heat stress. This will include a determination of how much heat and exertion employees are likely to be exposed to based on the work activity.

Factors that can increase heat stress include the following:

- Temperatures at the work site;
- Humidity;
- A lack of air movement or exchange;
- The amount of time employees spend working in the heat;
- The time of day work takes place;
- Sources of radiant heat (e.g., sunlight, fire, or hot furnace);
- Work activities that produce heat (e.g., welding);
- Physical contact with warm or hot objects or liquids;
- The clothing and PPE employees are required to wear; and/or
- Physically strenuous work.

Results of the hazard analysis should be used to determine appropriate controls for mitigating heat stress, whenever possible, for planning acclimatization, and for developing work schedules that rotate workers to limit employee exposure. Typically, the Site Supervisor (SS) or Site Health and Safety Officer (SHSO) shall conduct worksite observations to ensure all employees follow heat illness prevention procedures and that hazards are sufficiently controlled. However, all employees should be continuously evaluating work site conditions and be able to recognize heat stressors in order to prevent heat illnesses.

5. TRAINING

All Roux employees shall be trained on the topics listed below prior to beginning work, which may potentially expose workers to heat stress.

Training Topics

- The environmental, behavioral, and personal risk factors for heat illness, such as radiant heat sources, exertion, clothing and PPE, and use of alcohol or drugs.
- Types of heat illnesses, common symptoms, and appropriate emergency response for each.
- The knowledge that mild symptoms may quickly become more severe or life-threatening.
- The importance of immediately reporting any signs or symptoms of heat illness to the supervisor.
- The employer's responsibility to provide shade, water, access to first aid, and cool-down rests during work and the employee's freedom to exercise their rights under this standard without fear of retaliation.

- The employer's heat stress plan and its procedures:
  - Procedures for employees who are newly assigned to work in high-heat areas.
  - The organization's acclimatization methods, as applicable.
  - Heatwave procedures.
  - Heat illness and emergency response, including contact information.
- The importance of frequent consumption of water and the taking of rest breaks.
- How heat illness prevention applies to employees' specific tasks.

Increasing Training Effectiveness:

- The SS/SHSO will hold daily tailgates with the field team to go over daily work tasks and basic safety information including Job Safety Analysis (JSA) review as well as incorporate elements such as current weather and effects on the work activities for the day.
- If a heat wave or high heat is anticipated, OHSMs and/or OMs will provide communications to Roux employees prior to their shifts and remind them of any special high heat procedures.

6. DRINKING WATER

Employees shall be given access to potable drinking water. Access to water will be provided as near as possible to where employees are working, and there shall be enough locations so employees will have sufficient water. Water should be fresh and pure, free of taste or smell that would discourage employees from drinking, comfortably cool, and obtained from an approved source.

The recommendation is that during warm or hot weather, employees drink four 8-ounce glasses of water, or a total of one quart per hour, throughout the entire work shift. Easy access to sufficient potable drinking water throughout the work shift encourages employees to drink.

During a heat wave, water shall be replenished more often to keep available and cool. Water containers (and all spouts and levers) must be kept clean. If able, provide single-use drinking cups with appropriate waste receptacles. Accessible sanitation facilities shall also be maintained at work Sites as appropriate.

SS/SHSO is responsible for the following:

- Drink sufficient water before, during, and after work shifts to maintain hydration.
- Encourage frequent drinking of small amounts of water throughout the shift. In high-heat environments, remind field staff and subcontractors that drinking extra water may be necessary.
- Discourage the choice of drinks with caffeine or sugar that may possibly dehydrate employees instead of water. Also, discourage the drinking of alcohol.
- Monitor the water supply.
- If employees become dehydrated and are unable to alleviate symptoms with the steps below, get them immediate medical attention.

Field Staff/Subcontractors are responsible for the following:

- Drink sufficient water before, during, and after work shifts to maintain hydration. Drink up to 4 cups of water per hour, especially during hot weather.
- Be aware that in high-heat situations, you may need to drink more water.

- Monitor yourself and others for signs of dehydration. If you feel dehydrated:
  - Follow Roux's Incident Notification Flowchart;
  - Rest in the shaded resting area; and
  - Drink water in small amounts, but frequently.

7. ACCESS TO SHADE

Access to shaded areas will be provided to Roux staff, as needed. Employees are encouraged to use these areas when they feel overheated. Roux's SS/SHSO shall oversee the proper implementation of shaded areas and will communicate these locations on a daily basis with the Field Team.

Depending on the Site, shaded areas can include the following:

- Pop-up Tents
- Canopies
- Umbrellas
- Structures mechanically ventilated or open to air movement
  - Garage
- Conex-mounted RV canopies
- Full and thick tree canopies that block direct sunlight
- Buildings
- Enclosed areas only if they provide cooling comparable to shade in open-air
  - Vehicles with air conditioning

Shaded Area Requirements

The shade shall be strong enough to cool employees down and other shadows should not be visible in the shade. The shade will be provided by Roux when the air temperature exceeds 80°F. If the temperature is less than 80°F, shade will be available and provided upon request. The SS/SHSO will monitor conditions to determine when the air will exceed (and is exceeding) 80°F. For most Sites, air will be monitored hourly and shade will be set up immediately if 80°F is exceeded.

Shade shall be located as close as practical to areas where employees are working and is easily accessible. These areas will be considered safe and free from other hazards. Shaded areas should be large enough to accommodate all employees who are on a break, resting, or recovering without crowding. Should natural vegetation be used for shade, the SS/SHSO will evaluate shade for effectiveness.

Field Staff Responsibilities

Field Staff should take ordinary rest breaks in the shaded areas and monitor themselves for signs of heat stress, and go to the shaded area when they need to cool down. Any issues or problems with shaded areas should be reported to the SS/SHSO for the Site.

If shaded areas are used for a preventative cool-down, the SS/SHSO will ensure the affected employees will remain in the shade until they begin to feel better. The SS/SHSO will continue to monitor the employees and ask them if

they are experiencing symptoms of a heat illness. Employees shall not be sent back to work before symptoms have ended and at a minimum at least 10 minutes of rest.

8. MONITORING AND SCHEDULING

Monitoring

The SS/SHSO and Field Team will continue to monitor themselves and others for signs of heat illness. The SS/SHSO will monitor when the air temperature exceeds 80°F. Throughout the summer, weather and temperature will be monitored at least two weeks ahead, and the work schedule will be planned to accommodate the expected weather.

Scheduling

Scheduling accommodations may include:

- Working during cooler hours of the day
- Working at night
- Stopping work early
- Rescheduling work activities
- Increasing frequency of breaks

In general, strenuous work activities shall be rescheduled to the coolest parts of the day.

Special precautions are required for temperatures above 80°F, 95°F, and heat waves. These precautions are provided in the sections below.

9. ACCLIMATIZATION AND NEW EMPLOYEE PROCEDURES

Roux requires employees to be acclimatized in order for them to better tolerate heat in the workplace. Acclimatization is the physical process of adapting to a different thermal environment, allowing a better toleration of heat. Acclimatization procedures require gradual exposure that gives the employee time to adjust to each level of exposure. Acclimatization is essential for new employees but is necessary for all employees when the temperature significantly changes. Heat stress is much more likely if these procedures are not followed.

The SS/SHSO is responsible for observing new employees during their first 14 days of employment in high-heat areas.

Re-acclimatization is necessary if employees are absent from high-heat environments for a week or more or the temperature increases significantly.

10. HEATWAVE AND EXTREME HEAT PROCEDURES

Heat Wave Procedures

A heat wave is defined as consistent temperatures over 80°F or if the temperature is 10° higher than the average daily temperatures in the preceding 5 days.

SS/SHSO and Project Management (e.g., PP, PM) shall closely observe and monitor employees during a heat wave. The Field Teams should institute a ratio of one SS to 20 or fewer employees, a mandatory buddy system, or

a consistent practice for supervisors to check on employees. Pre-shift meetings to review high-heat procedures with employees will be carried out to emphasize work-rest schedules, drinking water, shade, etc.

Extreme Heat Procedures

When work-site temperatures equal or exceed 95°F, the employer will enact extreme heat procedures:

- Employees will be closely observed by the SS/SHSO for signs of heat illness. New employees will be supervised for acclimatization.
- Effective communication and monitoring will be assured through the use of periodic check-ins with the SS/SHSO via phone. Communications between employees and Project Management (e.g., PP/PM) will be established and maintained. Mandatory 10-minute break periods are required for every two hours worked. SS/SHSO must enforce this rule.
- Pre-shift safety tailgate meetings will occur to review procedures and to remind employees to drink water and take cool-down rests if needed. SS/SHSO shall remind employees to rest and drink water. Employees should drink more water than usual.

11. EMERGENCY RESPONSE PROCEDURES

Roux is dedicated to providing prompt appropriate care for all employees who report or show symptoms of heat illness. If an employee shows signs of heat illness, they will be monitored and shall not be left alone or sent home without being offered first aid or emergency medical services. If on-Site personnel require any medical treatment, the following steps will be taken:

1. Notify Roux's Project and Corporate Management Team for any work-related injury and/or illness occurrence, and communicate with the contracted Occupational Health Care Management Provider, AllOne Health (AOH), immediately following the notifications provided above.
2. Based on discussions with the Project Team, Corporate Management, and the AOH evaluation, if medical attention beyond onsite First Aid is warranted, transport the injured / ill person (IP) to the Urgent Care Center, or notify the Fire Department or Ambulance Emergency service and request an ambulance or transport the victim to the hospital, and continue communications with Corporate Management Team. An Urgent Care/Hospital Route map with locations and directions is provided within Site Specific Health and Safety Plans.
3. First aid medical support will be provided by onsite personnel trained and certified in First Aid, Cardio Pulmonary Resuscitation (CPR), Automatic External Defibrillation (AED), and Blood-Borne Pathogens (BBP) Awareness, until relieved by emergency medical services (EMS).
4. The SHSO and Project Manager will perform a Loss Investigation (LI) and the Project Team will complete the final Loss Report.

12. HEAT-RELATED ILLNESSES

Heat Stress

Heat stress is a significant potential hazard and can be associated with heavy physical activity and/or the use of personal protective equipment (PPE) in hot-weather environments. For these reasons, the company will provide potable drinking water and access to shade or other areas of relief (i.e., air-conditioned vehicles and work trailers). Supervisors, prior to supervising personnel in the field as well as all personnel involved with the fieldwork of a project, are trained in this HASP that includes preventing heat-related illnesses and the below procedures in response to heat-related symptoms and illness. Since much of our work is dependent upon environmental factors beyond our control, we must closely monitor air temperature and humidity and be aware of avoiding radiant heat sources and providing as much air circulation as possible wherever we work. Physical factors that need to be evaluated as part of our Job Safety Analysis (JSA) reviews include the level of physical activity and duration of work

and the type (i.e., color, weight breathability) of the clothing we select. In addition, personal factors such as age, weight, fitness, drug/alcohol use, and prior history of heat-related illness need to be considered.

Heat cramps are brought on by prolonged exposure to heat. As an individual sweats, water and salts are lost by the body, resulting in painful muscle cramps. The signs and symptoms of heat stress are as follows:

- Severe muscle cramps, usually in the legs and abdomen;
- Exhaustion, often to the point of collapse; and
- Dizziness or periods of faintness.

First aid treatment includes, but is not limited to, shade, rest, and fluid replacement. Typically, the individual should recover within one-half hour while being monitored constantly. If the individual has not improved substantially within 30 minutes and the body temperature has not decreased, the individual should be transported to a hospital for medical attention.

Heat Exhaustion

Heat exhaustion may occur in a healthy individual who has been exposed to excessive heat while working or exercising. The circulatory system of the individual fails as blood collects near the skin to rid the body of excess heat through transference. The signs and symptoms of heat exhaustion are as follows:

- Rapid and shallow breathing;
- Weak pulse;
- Cold and clammy skin with heavy perspiration;
- Skin appears pale;
- Fatigue and weakness;
- Dizziness; and
- Elevated body temperature.

First aid treatment includes, but is not limited to, cooling the victim, elevating the feet, and replacing fluids. If the individual is not substantially improved within 30 minutes and the body temperature has not decreased, the individual should be transported to the hospital for medical attention.

Heat Stroke

Heat stroke occurs when an individual is exposed to excessive heat and stops sweating. This condition is classified as a MEDICAL EMERGENCY requiring immediate cooling of the victim and transport to a medical facility. The signs and symptoms of heat stroke are as follows:

- Dry, hot red skin;
- Body temperature approaching or above 105 degrees F;
- Confusion, altered mental state, slurred speech;
- Seizures;
- Large (dilated) pupils; and
- Loss of consciousness – the individual may go into a coma.

First aid treatment requires immediate cooling and transportation to a medical facility. Heat stress is a significant hazard if any type of protective equipment (semi-permeable or impermeable) that prevents evaporative cooling is worn in hot-weather environments.

13. OTHER HEAT CONTROLS

Clothing and PPE

Employees should choose clothing that is reflective, light-colored, lightweight, loose-fitting, and breathable. Clothing should cover the exposed parts of the body. In direct sun, hard hats with a brim or bill may be helpful. Should specialized cooling garments be applicable, please consult with your OM/OHSM/CHSD.

Managing Employee Risk Factors

It is recommended that employees are aware of how their health can affect their risk of heat stress. The following increases ones risk for a heat related illness:

- A poor level of physical fitness
- Obesity
- Chronic or acute illnesses
- Conditions such as diabetes, heart disease, or high blood pressure
- Certain medications, such as diuretics
- Age (60+)

Employees should:

- Maintain their health outside of work
- Be aware of the effects of medications
- Drink adequate amounts of water
- Eat light, cool meals during work shifts and save heavy meals until after the shift is over
- Do not skip meals: food helps replace electrolytes when sweating
- Take breaks as needed
- Do not consume alcohol prior to working in a hot environment

APPENDIX D

Personal Protective Equipment (PPE) Management Program

PERSONAL PROTECTIVE EQUIPMENT
MANAGEMENT PROGRAM

CORPORATE HEALTH AND SAFETY DIRECTOR	:	**Brian Hobbs, CIH, CSP**
EFFECTIVE DATE	:	**01/2019**
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1. PURPOSE

Roux Associates, Inc. and its affiliated companies, Roux Environmental Engineering and Geology, D.P.C., and Remedial Engineering (collectively, "Roux") has instituted the following program to establish guidelines for the selection of personal protective equipment (PPE) for use by Roux personnel performing field activities in hazardous environments. PPE is not meant to be a substitute for engineering, work practice, and/or administrative controls, but PPE should be used in conjunction with these controls to protect employees in the workplace. Clothing, body coverings, and other accessories designed to prevent worker exposure to workplace hazards are all types of PPE. To ensure adequate PPE employee-owned PPE is evaluated on a case-by-case basis to insure its adequacy, maintenance and sanitation.

2. SCOPE AND APPLICABILITY

These guidelines apply to all PPE selection decisions to be made in implementing the Roux program. The foundations for this program are the numerous Occupational Health and Safety Administration (OSHA) standards related to PPE cited in 29 CFR 1910 Subpart I, 29 CFR 1926 Subpart E, and the hazardous environment work employee protection requirements under the OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) standard at 29 CFR 1910.120 and 1926.65. To ensure hazard assessments are documented, the levels of protection, types of protection, and tasks requiring protection are covered in site-specific Health and Safety Plans (HASPs) and Job Safety Analyses (JSAs).

3. PROCEDURES

Due to the varied nature of site activities and the different potential hazards associated with different sites, several aspects must be considered when selecting PPE. The following text describes PPE selection logic and provides guidelines and requirements for the appropriate selection and use of PPE.

3.1 Introduction

To harm the body, chemicals must first gain entrance. The intact skin and respiratory tract are usually the first body tissues that are exposed to chemical contaminants. These tissues provide barriers to some chemicals but, in many cases, are damaged themselves or are highly permeable by certain chemical compounds. PPE, therefore, is used to minimize or eliminate chemical compounds from coming into contact with these first barrier tissues.

Proper PPE selection is essential in preventing exposures. The Project Manager (PM) or health and safety personnel making the selection will have to consider several factors. The level of protection, type, and kind of equipment selected depends on the hazardous conditions. In some cases, additional selection factors include cost, availability, compatibility with other equipment, and performance. All these factors must be accurately assessed before work can be safely carried out.

3.1.1 Training

Training shall be provided to all field-based employees in properly using and caring for PPE. Training shall include, but not be limited to, the initial 40-hour HAZWOPER training, annual 8-hour HAZWOPER refresher training, and site-specific PPE training. The training program includes when PPE is necessary, what types of PPE are required; how to don, doff, adjust, and wear PPE; the limitations of PPE; the proper care, maintenance, useful life, signs of PPE failure and emergency procedures to follow in the event of PPE failure and disposal of PPE. In addition, retraining shall be conducted when workplace changes require a change in PPE when an employee demonstrates a lack of knowledge or improper use of PPE is identified.

3.2 Types of PPE

The type and selection of PPE must meet certain general criteria and requirements as required under OSHA 29 CFR 1910.132 (General Industry) and 1926.95 (Construction). In addition to these general requirements, specific requirements and specifications exist for some types of PPE that form the basis of the protective clothing scheme. All manufacturer's recommendations for PPE care and use shall be followed. All PPE shall be maintained in a sanitary and reliable condition. Additionally, proper fit and size shall be evaluated to ensure adequate employee protection. Should PPE become defective, it shall be immediately removed from service and discarded.

The following is a list of the common types of specific PPE and the specific requirements for the PPE type, where applicable:

1. Hard Hats - Regulated by 29 CFR 1910.135 and 1926.100; and specified in ANSI Z89.1.
2. Face Shields and Safety Glasses - Regulated by 29 CFR 1910.133 and 1926.102; and specified in ANSI Z87.1.
3. Respiratory Protection - Regulated by 29 CFR 1910.134 and 1926.103.
4. Hand Protection - Regulated by 29 CFR 1910.138
5. Foot Protection - Regulated by 29 CFR 1910.136 and 1926.96; and specified in ANSI Z41.1.
6. Protective Clothing (e.g., fully encapsulated suits, aprons) - Specified in NFPA 1991/1992/1994.

3.2.1 PPE Inspection, Cleaning Maintenance, and Storage

The Office Health and Safety Manager (OHSM) or their designee is responsible for procuring PPE, in accordance with this management program. Single-use/disposable PPE should be purchased and used whenever practicable.

3.2.1.1 PPE Inspection

Roux employees must inspect PPE regularly, before and after each use, to check for defects and damage. Garments and other PPE in central storage must be inspected at least annually or as recommended by the manufacturer by the OHSM, Equipment Manager and/or their designee. Defective or damaged equipment must be tagged as out-of-service, immediately removed from the work site and discarded.

3.2.1.2 PPE Cleaning and Maintenance

All Roux employees are responsible for routine cleaning of their assigned PPE. Decontamination of PPE is addressed within Roux's Site Control and Decontamination Program as well as specified within site-specific health and safety plans. As appropriate, Roux employees should be issued single-use PPE when practicable to minimize the requirement for decontamination. When performing routine cleaning of reusable PPE:

- Always follow the manufacturer's recommendations to avoid damaging the PPE. For example, some cleaning solutions compromise the integrity of protective helmets' shells.
- Clean and maintain PPE according to the manufacturer's recommendations. Before being re-issued, PPE should be thoroughly sanitized.
- Disassemble, wash, and sanitize reusable respirators after each use, refer to Roux's Respiratory Protection Management Program.

Employees are not authorized to repair PPE without prior approval from the Health and Safety Department. Reusable PPE may require maintenance by the manufacturer to maintain integrity and certification. Many

manufacturers specify which repairs, if performed by the end-user, will void product warranty, therefore Roux employees are not typically authorized to perform such maintenance or repairs.

3.2.1.3 PPE Storage

Certain equipment failures can be directly attributed to improper storage. The OHSM or Equipment Manager (or another designated person) is responsible for implementing procedures for appropriate PPE storage, for equipment that is centrally stored. Both central storage and dedicated PPE provided to employees should be stored using the following:

- Store goggles and safety glasses in protective cases.
- Store PPE (such as helmets, boots, etc.) in clean, dust-proof containers or bags out of direct sunlight.
- PPE should ideally be stored under climate-controlled conditions. PPE, stocked gear bags, and/or go-kits should not be stored in hot, cold, or other extreme environmental conditions, and they should not be stored in vehicles (government-owned or rentals) for even short periods of time. Do not store helmets on the rear window shelf of a vehicle.
- Store different kinds of clothing and gloves separately to prevent errors in selection.
- Hang or fold protective clothing in accordance with manufacturers' recommendations.
- Never store contaminated PPE near new protective clothing or street clothing. Potentially contaminated, reusable clothing must be stored (usually bagged) away from new PPE, in a well-ventilated area, with good air flow around each item, until the garment is decontaminated or disposed.
- See Roux's Respiratory Protection Management Program for detailed procedures on storing respirators.

3.3 Fitting, Donning and Doffing PPE

Roux shall provide appropriately sized PPE for Roux employees. Improper fitting such as tight-fitting garments, can tear, especially at the knees, crotch, shoulders, back, and elbows due to movement. Protective clothing that is too large can easily snag and/or limit a user's dexterity. The Roux PM shall ensure site/project-specific PPE is kept in a sufficient stock of appropriately sized PPE (e.g., Level C ensembles). The OHSM, Equipment Manager and/or their designee shall ensure a sufficient stock of appropriately sized PPE is maintained in central storage locations.

The Site Supervisor (SS)/Site Health and Safety Officer (SHSO) is responsible for ensuring that site-specific procedures for donning and doffing PPE are incorporated into site-specific HASPs. Donning and doffing procedures may differ depending on the type of PPE and clothing (e.g., Level D, Modified Level D, Level C) utilized. Figures 1-4, provide examples of procedures that can be used to don and doff Levels A through D and are provided as a reference. Site-specific conditions may warrant adjustments to such procedures. Consult the CHSD for additional information.

Site-specific donning and doffing procedures should include the use of an assistant where necessary. Donning and doffing certain types of PPE without assistance could risk PPE failure or damage. Care must be taken to prevent the spread of contaminants on the PPE. Decontamination procedures should limit the potential for cross contamination and may include gross decontamination of outer boots, gloves, and suits as necessary to prevent tracking of contaminants into the contamination reduction zone (CRZ) and clean zone(s).

3.4 Controlling Hazards Associated with PPE Use

PPE use can pose potential health and safety hazards, which range from minor discomfort to life-threatening height stroke. The magnitude of the potential hazard can vary and will depend on various factors, including an individual's fitness level, the type of PPE worn, the work demands, individual work practices, duration of work and environmental conditions. The use of PPE can also lead to reduced efficiency and work performance.

Among hazards associated with PPE use, heat stress emerges as a prevalent and significant hazard. Particularly, the use of substantial and/or impermeable attire, such as heavy coveralls, Tyvek suits, splash suits, or Level A or B suits, alongside strenuous work, amplifies the risk of heat stress. Regular monitoring for indications of heat stress is imperative for workers operating in such conditions. Roux's Heat Illness Prevention Program lays out requirements for signs and symptoms as well as preventative measures to mitigate the potential for heat illness. In addition, cold environments can pose adverse risk, such examples include use of non-insulated steel-toe safety shoes in frigid conditions which has the potential to increase the risk of frostbite, while safety gloves worn for chemical protection may inadequately insulate hands from the cold.

It is the responsibility of Project Teams to integrate site-specific protocols to manage PPE hazards into such site-specific HASPs. These protocols can encompass considerations like work/rest ratios, crew rotations, and other accommodations for exceptionally demanding conditions.

The following measures are recommended for controlling hazards posed by PPE use:

- Prioritize through the hierarchy of controls with a focus on elimination, substitution, engineering, work practice and administrative control implementation rather than sole reliance on PPE. PPE shall be considered the last line of worker protection.
- Workers should maintain physical fitness to be able to withstand the potential physical strain of PPE use. A physically fit individual will endure less physiological strain, manifesting in a lower heart rate, reduced body temperature (indicating diminished retained body heat), more effective sweating, slightly lower oxygen consumption, and carbon dioxide production. Furthermore, acclimatization to extreme environmental conditions, such as high temperatures, can influence work performance and physical capacity.
- Understand the symptoms of PPE failure. Workers encountering any of these symptoms while donning PPE should promptly notify their onsite SHSO and/or SS:
    - Perception of odors when wearing a respirator
    - Skin irritation
    - Acute discomfort
    - Difficulty breathing
    - Unusual fatigue
    - Dizziness
    - Inability to see, hear, or speak clearly
    - Uncomfortable restriction of movement
    - Rapid pulse, nausea, or chest pain
- Implement a buddy system. Especially in situations where there is a need for increased level of protection (e.g. Level A-C) workers should work in pairs or teams, and are instructed to monitor the integrity of their team/partners gear and remain alert for symptoms of PPE failure.

3.5 PPE Selection

For site-specific work, the Project Manager in consultation with the Health and Safety Department has overall responsibility for coordinating the selection and distribution of PPE to field staff and for ensuring that the selected PPE is appropriate for the site-specific hazards. Generally speaking Roux employees are not engaged in emergency response or perform work at uncontrolled hazardous waste sites, if the case the CHSD shall be made aware of the work and consult with the Project Team on appropriate PPE selection. Most work falls under environmental sampling of low concentration water/soil/perimeter air. Therefore work is carried out in Level D PPE. Upgrades would be based on more information as it becomes available. The United States Environmental Protection Agency (EPA) has created Guidelines for PPE Ensemble Selection to assist workers in selecting PPE ensembles for specific activities and tasks and determining which ensembles and air monitoring equipment should be used to address specific chemicals. Guidelines to Ensembles for Specific Activities/Tasks Where Chemical Exposure is Possible is provided as a reference as Appendix A.

3.6 Protective Clothing Selection Criteria

3.6.1 Chemicals Present

The most important factor in selecting PPE is the determination of what chemicals the employee may be exposed to. The number of chemicals on field investigations may range from a few to several hundred. The exact chemicals or group of chemicals present at the site (certain groups tend to require similar protection) can be determined by collecting and analyzing air, soil, water, or other site media samples. When data are lacking, research into the hazardous materials used or stored at the site can be used to infer potential chemical exposures on the site.

The most appropriate clothing shall be selected once the known or suspected chemicals have been identified and considered based on the type of work to be performed.

Protective garments are made of several different substances for protection against specific chemicals. There is no universal protective material. All will decompose, permeate, or otherwise fail to protect under given circumstances. Fortunately, most manufacturers make guides to using their products (i.e., Dupont's Tyvek™ Permeation Guide). These guides are usually for gloves and coveralls and typically provide information regarding chemical degradation rates (failure of the material to maintain structural integrity when in contact with the chemical) and may provide information on the permeation rate (whether or not the material allows the chemical to pass through). When permeation tables are available, they shall be used with degradation tables to determine the most appropriate protective material for the specific chemical hazard(s).

During most site work, chemicals are usually in mixed combinations, and the protective materials are not in continuous contact with pure chemicals for long periods; therefore, the selected material may be adequate for the particular chemical of most concern and type of work being performed, yet not the "best" protecting material for all site chemicals and activities. Selection shall depend upon the most hazardous chemicals based on their hazards and concentrations. Sometimes, layering (i.e., using several layers of protective materials) affords the best protection.

3.6.2 Concentration of the Chemical(s)

One of the major criteria for selecting protective material is the concentration of the chemical(s) in air, liquid, and solid state. Airborne and liquid chemical concentrations should be compared to the OSHA standards and American Conference of Governmental Industrial Hygienists (ACGIH) and National Institute for Occupational Safety and Health (NIOSH) guidelines to determine the level of skin or other absorptive

surface (e.g., eyes) protection needed. While these standards are not designed specifically for skin exposed directly to the liquid, they may provide skin designations indicative of chemicals known to have significant skin or dermal absorption effects. For example, airborne levels of PCBs on-site may be low because they are not very volatile, so the inhalation hazard may be minimal; however, PCB-containing liquid coming in direct contact with the skin may cause overexposure. Thus, PCBs have been assigned a skin designation in the OSHA and ACGIH exposure limit tables.

3.6.3 Physical State

The characteristics of a chemical may range from nontoxic to highly toxic, depending on its physical state. Inorganic lead in soil would not be considered toxic to site personnel unless it became airborne since it is generally not absorbed through the intact skin. However, organic lead in a liquid could be readily absorbed through the skin. Soil is frequently contaminated with hazardous materials. Concentrations will vary from a few parts per million to nearly one hundred percent by volume. The degree of hazard depends on the type of soil and concentration of the chemical. Generally speaking, "dry" soils that have not become airborne do not pose a hazard to site personnel if they take minimal precautions, such as wearing lightweight gloves.

3.6.4 Length of Exposure

The length of time a material is exposed to a chemical increases the probability of a breakthrough. Determinations of actual breakthrough times for short-term exposures indicate that several materials that would be considered inadequate under long-term exposures can be used. Different materials that would be considered inadequate under long-term exposures can be used. It should be kept in mind that during the manufacturer’s permeation testing, a pure (100% composition) liquid is usually placed in direct contact with the material, producing a worst-case situation.

3.6.5 Abrasion

When selecting protective clothing, the job the employee is engaged in must be taken into consideration. Persons moving drums or performing other manual tasks may require added protection for their hands, lower chest, and thighs. Using leather gloves and a heavy apron over other normal protective clothing will help prevent damage to the normal PPE and thus reduce worker exposures.

3.6.6 Dexterity

Although protection from skin and inhalation hazards is the primary concern when selecting PPE, the ability to perform the assigned task must be maintained. For example, personnel cannot be expected to perform work that requires fine dexterity if they must wear thick gloves. Therefore, the PPE selection process must consider the task being performed and provide PPE alternatives or techniques that maintain dexterity while still protecting the worker (e.g., wearing tight latex gloves over more bulky hand protection to increase dexterity).

3.6.7 Ability to Decontaminate

If disposable clothing cannot be used, the ability to decontaminate the materials selected must be taken into consideration. Once a chemical makes contact with the material, the PPE must be cleaned before reusing it. If the chemical has completely permeated the material, the clothing cannot be adequately decontaminated, and the material should be discarded.

3.6.8 Climactic Conditions

The human body works best with few restraints from clothing. Protective clothing adds a body burden by increasing weight, restricting movement, and preventing the body's natural cooling process. In severe situations, a modified work program must be used.

Some materials act differently when they are very hot and very cold. For example, PVC becomes almost brittle in frigid temperatures. If there are any questions about the stability of the protective materials under different conditions, the manufacturer should be contacted before using PPE in the field.

3.6.9 Work Load

Like climactic conditions, the type of work activity may affect work duration and personnel's ability to perform certain tasks. Similarly, the amount of protective materials a person wears will affect their ability to perform certain tasks. For example, a person in a total encapsulating suit, even at 72˚F, cannot work for more than a short period of time without requiring a break.

The work schedule should be adjusted to maintain the health of the employees. Modified work practices may include allowing more time for individual job tasks and implementing work/rest cycles per NIOSH and ACGIH thermal stress recommendations. Special consideration should be given to the selection of clothing that protects the worker and adds the least burden when personnel are required to perform strenuous tasks. Excessive bodily stress frequently represents the most significant hazard encountered during fieldwork.

3.6.10 Types of Protective Materials

1. Cellulose or Paper: suitable for nuisance dust and coarse fibers.
2. Natural and Synthetic Fibers
    a. Tyvek™: suitable small-sized hazardous particles, including lead, asbestos, and mold.
    b. Tychem™: is suitable for a variety of hazards, from light liquid splashes to heavy exposures to industrial chemicals and agents.
    c. Nomex™: is suitable for flame-resistance, radiation resistance, acids, alkalis, fluorocarbon refrigerants (CFCs), and non-polar solvents.
3. Elastomers
    a. Polyethylene: suitable for polar substances and solvents.
    b. Saran™ : suitable for flame-resistance, acids, alkalis, oils, and organic solvents.
    c. Polyvinyl Chloride (PVC): suitable for alcohols, oils, inorganic acids, alkalis, and salts.
    d. Neoprene: suitable for polar/non-polar substances, petroleum mixtures, and ≤ 200 F heat resistance.
    e. Butyl Rubber: suitable for polar substances and solvents.
    f. Viton: suitable for non-polar substances, petroleum mixtures, and ≤ 200 F heat resistance.
    g. Nitrile: suitable for polar/non-polar substances and petroleum mixtures.

3.7 Protection Levels

3.7.1 Level A Protection

Level A protection (a fully encapsulated suit) is used when skin hazards exist or when no known data positively rule out skin and other absorption hazards. Per the Roux Respiratory Protection Management

Program, Roux employees are not authorized to enter an IDLH atmosphere; therefore, the program does not allow supplied air respirators (SARs) or self-contained breathing apparatus (SCBA). At no time will Level A work be performed without the consent of the CHSD and OM.

The following conditions warrant the use of Level A protection:

- Hazardous substances have been identified and require the highest level of protection for skin, eyes, and the respiratory system;
- The atmosphere contains less than 19.5% oxygen or an atmosphere immediately dangerous to life and health (IDLH) that have not been ruled out;
- Site operations involve a high potential for splash, skin immersion, or exposure to suspected skin hazards;
- Direct-reading instruments indicate high levels of unidentified but potentially hazardous vapors or gases in the air (e.g., Total atmospheric readings on the Photoionization Detector (PID), Flame Ionization Detector (FID), and similar instruments indicate 500 to 1,000 ppm of unidentified substances); and
- Direct-reading instruments are not available to test the air and suspected highly toxic substances may be present.

It may be necessary to base the decision to use Level A protection on indirect evidence. Other conditions that may indicate the need for Level A protection include:

- Confined spaces;
- Sites containing known skin hazards;
- Sites with no established history to rule out skin and other absorption hazards;
- Site exhibiting signs of acute mammalian toxicity (e.g., dead animals, illnesses associated with past entry into the site by humans);
- Sites at which sealed drums of unknown materials must be opened;
- Visible indicators such as leaking containers or smoking chemical fires; and
- Extremely hazardous substances (e.g., cyanide compounds, concentrated pesticides, Department of Transportation Poison "A" materials, suspected carcinogens, and infectious substances) are known or suspected to be present, and skin contact is possible.

Table 1: Recommended Level A Ensemble Components			
Component	**Type**	**Manufacturer / Recommended Material**	**Notes**
Respirator	Positive-pressure full- facepiece SCBA or positive-pressure supplied-air respirator with escape SCBA[1]	NIOSH approved respirator	See Roux's Respiratory Protection Program. Roux employees are not approved to utilize Supplied Air (SAR) and/or Self-contained breathing apparatus (SCBA).
Suit	Totally encapsulated chemical- and vapor-protective suit	DuPont® Tychem™ or Responder CSM™	Other material types may be substituted based on known contaminants.
Inner Gloves	Light weight	Nitrile, Neoprene, PVC, or Viton®	Other material types may be substituted based on known contaminants.
Outer Gloves	Integral part of suit	See Appendix A for additional information	Confirm chemical performance rating for suspected contaminants. Glove material may have different performance ratings than suit material. All fully-encapsulating suit materials must be compatible with substances involved.
Inner Boot	Integral Part of Suit	-	-
Outer Boot	HazMat boot[2]	–	Confirm chemical performance rating of outer boot for suspected contaminants. Provides slip/abrasion resistance.
Hard Hat	Standard[3]	-	-

[1] Must be NIOSH approved.
[2] Must meet NFPA 1991/NFPA 1994 requirements depending on the site hazard assessment.
[3] Must comply with the applicable ANSI standard.

3.7.2 Level B Protection

Level B protection is utilized when the highest level of respiratory protection is needed, but hazardous material exposure to the few unprotected areas of the body is unlikely. At no time will Level B work be performed by Roux personnel without the consent of the CHSD and OM.

The following conditions suggest a need for Level B protection:

- The type and atmospheric concentration of toxic substances have been identified, and they require the highest level of respiratory protection;

- IDLH atmospheres where the substance or concentration in the air does not present a severe skin hazard;
- The type and concentrations of toxic substances do not meet the selection criteria permitting the use of air-purifying respirators and
- It is highly unlikely that the work being done will generate high concentrations of vapors, gases, particulates, or splashes of materials that will affect personnel's skin.

Table 2: Recommended Level B Ensemble Components

Component	Type	Manufacturer / Recommended Material	Notes
Respirator	Positive-pressure full- facepiece SCBA or positive-pressure supplied-air respirator with escape SCBA[1]	NIOSH approved respirator	See Roux's Respiratory Protection Program. Roux employees are not approved to utilize Supplied Air (SAR) and/or Self-contained breathing apparatus (SCBA).
Suit	Chemical-resistant clothing (liquid-splash protective suit with integral boot and hood)[2]	DuPont® Tychem® CPF 3	Other material types may be substituted based on known contaminants.
Inner Gloves	Light/medium weight	Nitrile, Neoprene, PVC, Viton®, or PE/EVAL	Other material types may be substituted based on known contaminants.
Outer Gloves	Medium/heavy weight	Butyl MIL-G12223, Nitrile, Neoprene, PVC, Viton®, PE/EVAL, or heavy weight Nitrile or Neoprene	Confirm chemical performance rating. Other material types may be substituted based on known contaminants.
Inner Boot	Safety work boot	–	Other boot types may be substituted based on known contaminants and physical hazards. Puncture resistant shanks may be required.
Outer Boot	Heavy weight Latex booties or outer boots[2]	Latex booties are used to protect suit for light duty applications. NFPA-rated outer boots may be required based on anticipated site conditions and tasks.	Other outer boot coverings may be substituted based on known contaminants/anticipated tasks.
Hard Hat	Standard[3]	-	-

[1] Must be NIOSH approved.
[2] Must meet NFPA 1991/NFPA 1994 requirements depending on the site hazard assessment.
[3] Must comply with the applicable ANSI standard.

3.7.3 Level C Protection

Level C protection is utilized when skin and respiratory hazards are well defined, and the criteria for using negative pressure respirators have been fulfilled (i.e., known contaminants and contaminant concentrations, acceptable oxygen levels, approved filter/cartridge available, known cartridge service

life, etc.). Level C protection may require an emergency escape respirator during specific initial entry and site reconnaissance situations or when applicable after that.

Table 3: Recommended Level C Ensemble Components

Component	Type	Manufacturer / Recommended Material	Notes
Respirator	Full-face air-purifying respirator with appropriate cartridge[1]	NIOSH approved respirator	See Roux's Respiratory Protection Program for information about the brand, model, acceptable configurations, and specific care instructions for the standard issue respirator. Half-faced respirators may be donned if hazard assessment warrants.
Suit	Puncture/tear resistant suit material with boot and hood[2]	DuPont® Tychem® CPF 2/CPF 3 or Saranex	Other material types may be substituted based on known contaminants, if considered more appropriate.
Inner Gloves	Light weight	Nitrile, Neoprene	Other material types like Neoprene, PVC, Viton®, or PE/EVAL may be substituted based on known contaminants, if considered more appropriate.
Outer Gloves	Medium/heavy weight	Butyl, Nitrile, or other work glove	Confirm chemical performance rating. Other material types may be substituted based on known contaminants, if considered more appropriate.
Inner Boot	Safety work boot	–	Other boot types may be substituted based on known contaminants and physical hazards. Puncture resistant shanks may be required.
Outer Boot	Heavy weight Latex booties or outer boots[2]	Latex booties are used to protect suit for light duty applications. NFPA rated outer boots may be required based on anticipated site conditions and tasks.	Other outer boot coverings may be substituted based on known contaminants.
Hard Hat	Standard[3]	-	-
Eye Protection	Safety glasses/goggles[3,4]	-	-

1 Must be NIOSH approved.
2 Must meet NFPA 1991/NFPA 1994 requirements depending on the site hazard assessment.
3 Must comply with the applicable ANSI standard.
4 In the case a ½ face respirator is worn eye protection is required.

3.7.4 Level D Protection

Level D is the basic work uniform. Level D is worn when the atmosphere contains no known hazard. Work functions preclude splashes, immersion, potential for inhalation, or direct contact with hazard chemicals. For most Roux field jobs Level D is the standard minimum level of protection worn.

Table 4: Recommended Level D Ensemble Components

Component	Type	Manufacturer / Recommended Material	Notes
Respirator	None	-	-
Suit	Coveralls, street clothes, or disposable Tyvek suit	–	Other types may be substituted as appropriate.
Inner Gloves	N/A		
Outer Gloves	As appropriate for physical hazards and for comfort	–	-
Boot	Safety work boot	–	Roux's standard safety boot is 6", steel/composite safety toe, and electrical hazard (EH) rated.
Outer Boot Covering	As appropriate	–	–
Hard Hat	Standard[3]	-	-
Eye Protection	Safety glasses/goggles[3]	-	-
High Visibility Clothing	High Visibility Vest /Jacket[3]	-	ANSI Class 2 Safety Vests/Jackets are the standard. Class 3 Safety vests/jackets shall be worn in worksites with 50+ MPH traffic.
Hearing Protection	Ear muffs/plugs	-	Workers exposed to excessive noise shall don hearing protection. Refer to Roux's Hearing Conservation Program for more information.

[1] Must be NIOSH approved.
[2] Must meet NFPA 1991/NFPA 1994 requirements depending on the site hazard assessment.
[3] Must comply with the applicable ANSI standard.

3.7.5 Level E Protection

Level E protection is used when radioactivity above 10 millirems per hour (mrems/hr) is detected at the site. Personal protective equipment for Level E includes:

- Coveralls;
- Air purifying respirator (i.e., P100 or equivalent);
- Time limits on exposure;
- Appropriate dermal protection for the type of radiation present, and

- Radiation dosimetry and ambient monitoring.

3.7.6 Additional Considerations

Fieldwork will contain a variety of situations due to chemicals in various concentrations and combinations. These situations may be partially ameliorated by following the work practices listed below:

1. Foot protection is needed on every site. If the ground to be worked on is contaminated with liquid, and it is necessary to walk in the chemicals, some sort of protective shoe coverings or "booties" can be worn over the boots. Shoe coverings should be designed with soles to help prevent slips. Using disposable shoe coverings when contacting liquid contamination can on and reduce overall decontamination requirements. If non-liquids are to be encountered, a Tyvek™ bootie could be used. The advantage of booties is questionable if the ground contains any sharp objects. Boots should be worn with either cotton or wool socks to help absorb perspiration.
2. If the site requires hard hats, chin straps should be used if a person will be stooping over where his/her hat may fall off. Respirator straps should not be placed over the hard hats, as this will affect the respirator's fit.

   Some types of protective materials conduct heat and cold readily. In cold conditions, natural material clothing should be worn under protective clothing. Protective clothing should be removed before allowing a person "to get warm." Applying heat, such as with a space heater, to the outside of the protective clothing may drive contaminant permeation. In hot weather, under clothing will absorb sweat. It is recommended that workers use all cotton undergarments.
3. Body protection should be worn and taped to prevent anything from running into the top of the boot. Gloves should be worn and taped to prevent substances from entering the top of the glove. Duct tape is preferred, but masking tape can be used. When aprons are used, they should be taped across the back for added protection. However, this should be done so that the person has mobility.
4. Atmospheric conditions such as precipitation, temperature, wind direction, humidity, wind velocity, and pressure determine the behavior of contaminants in air or the potential for volatile materials to become airborne. These parameters should be considered in determining the need for and the level of protection.
5. A program must be established for periodic air monitoring during site operations. Without an air monitoring program, any changes to air quality would go undetected and might jeopardize on-site personnel. Monitoring can be done with various types of air pumps and filtering devices, followed by laboratory analysis of the filtration media, personnel dosimeters, and periodic walk-throughs by personnel carrying real-time direct-reading survey instruments.
6. For operations in the exclusion zone, different levels of protection may be selected, and various types of chemical-resistant clothing may be worn. This selection should be based on the job function, reason for being in the area, and the potential for skin contact with, or inhalation of, the chemicals present.
7. Escape masks must be readily available when levels of respiratory protection do not include an SCBA and the possibility of an IDLH atmosphere exists. The use and placement of escape masks should be made on a case-by-case basis. Escape masks should be strategically located at the site in areas with higher potential for vapors, gases, or particulates.

3.8 Decontamination of PPE

Roux prefers the use of single use PPE to minimize the requirement for significant decontamination. The following procedures shall be considered should a field project require the need for decontamination of PPE. Roux has also developed a Site Control and Decontamination Management Program.

3.8.1 Site-Specific Decontamination Plans

The Project Manager (or another authorized individual) is responsible for formulating the site-specific PPE decontamination plan as an integral part of the Health and Safety Plan (HASP). The SHSO/SS' responsibilities include ensuring the plan's implementation and adapting it as site conditions evolve. Refer to Roux's Site Control and Decontamination Management program for additional requirements.

The decontamination plan, often created in conjunction with PPE selection, must be established prior to workers entering potentially contaminated areas. The plan should address the following key aspects:

- Decontamination Hazard Evaluation and Risk Assessment: Assessing risks associated with decontamination processes.
- PPE for Decontamination Line Assistants: Specifying appropriate PPE for personnel involved in decontamination.
- Roles and Responsibilities During Decontamination: Defining tasks and duties during the decontamination process.
- Layout and Quantity of Decontamination Stations: Determining the number and arrangement of decontamination stations, along with the designated PPE decontamination procedures at each station.
- Decontamination Equipment: Identifying the necessary equipment for effective decontamination.
- Decontamination Methods: Describing the methods and protocols for decontaminating personnel and equipment.
- Preventing Contamination of Clean Areas: Outlining procedures to prevent contamination of uncontaminated zones.
- Minimizing Contact with Contaminants During CPC Removal: Providing guidelines to reduce wearer exposure during the removal of Chemical Protective Clothing (CPC).
- Disposal Procedures for Inadequately Decontaminated Clothing and Equipment: Ensuring proper disposal practices for items that have not been adequately decontaminated.

The initial decontamination plan, which is developed in conjunction with the initial site hazard assessment, should be based on worst-case assumptions about the extent and type of contamination.

3.8.2 Emergency Decontamination of PPE

The designated SHSO/SS (or another authorized individual) assumes responsibility for addressing emergency decontamination within the site-specific Health and Safety Plan (HASP). Emergency decontamination may become necessary due to events such as fires, explosions, sudden violent storms, or medical emergencies. The emergency decontamination plan must clearly delineate emergency egress routes, as well as procedures for both decontamination and egress.

Some key points to consider regarding emergency decontamination.

- Immediate Notification: The SHSO/SS (or their designated counterpart) must be promptly informed of any circumstances requiring emergency decontamination. Additionally, they are accountable for tracking all personnel during the process.
- Urgent Medical Treatment: If urgent medical attention is necessary, decontamination of PPE may be delayed until the victim's condition stabilizes.
- Balancing Priorities: When feasible, decontamination should occur without hindering essential first aid. However, if a worker is exposed to an extremely toxic or corrosive substance, immediate decontamination is crucial to prevent severe injury or fatality.

- Heat-Related Illness: In cases of heat-related illness, protective clothing must be promptly removed (refer to Roux's Heat Illness Prevention Program).

Emergency Facilities:

- For workers potentially exposed to corrosive materials, quick drenching or flushing facilities must be provided in accordance with 29 CFR 1910.151(c) and 1926.50(g).
- Similarly, if workers face other hazards (such as splash or dust) that could harm the eyes or body, readily accessible wash stations are essential. These stations should be properly located and maintained, including regular water changes, as per the manufacturer's instructions.

3.8.3 Protection of Decontamination Line Assistants

Should work require a decontamination corridor the following shall be used as guidance. The SHSO/SS (or other designated person) must for ensuring that decontamination line assistants receive appropriate PPE and addressing their protection within the site-specific HASP. Key zones—namely, the Exclusion Zone (EZ), Contamination Reduction Zone (CRZ), and Clean Support Zone—must be clearly marked both in the field and within the site-specific HASP. The following should be considered when preparing for protection of decontamination line assistants.

1. Task Hazard Analysis: A thorough analysis must be conducted for line assistants to determine the optimal PPE level required. Factors influencing this decision include:
    - Expected or Visible Contamination on Responders
    - Type of Contaminant and associated respiratory and skin hazards
    - Total Vapor/Gas Concentrations in the CRZ
    - Presence of Particulates and specific inorganic or organic vapors in the CRZ
    - Results of Wipe Tests (refer to Section 5.4)
    - Slope and Configuration of the CRZ
2. PPE Levels: Depending on the situation:
    - Line assistants may need to wear the same PPE level as workers in the EZ.
    - Alternatively, line assistants may be adequately protected by using PPE one level lower (e.g., wearing Level C protection while decontaminating workers who are wearing Level B)."

3.8.4 Procedures to Minimize PPE Contamination

Proper work practices and procedures should be implemented at sites to minimize the potential for contact with chemicals of concern while onsite. The following guidance should be considered when developing site specific procedures:

- Opt for single-use Personal Protective Equipment (PPE) when feasible to minimize decontamination needs.
- Ensure complete sealing of PPE closures and interfaces, including pockets, zippers, and other potential openings.
- Position gloves and boots underneath the sleeves and pant legs of outerwear to reduce exposure.
- Place hoods outside the collar if they are not already attached.
- Utilize disposable outerwear and equipment when suitable to facilitate easy disposal and reduce decontamination efforts.
- Secure all junctions with tape to block contaminants from entering gloves, boots, jackets, and suits.

- Adopt work practices that limit contact with hazardous substances, such as avoiding unnecessary exposure.
- Employ remote techniques for sampling, handling, and opening containers, like using drum grapples and pneumatic impact wrenches.
- Store monitoring and sampling devices in bags designed with openings for sample ports and sensors.
- Cover contaminant sources with plastic sheeting or overpacks to shield PPE from contamination.

3.8.5 PPE Disposal

The PM in coordination with the field team shall ensure the safe disposal of all wastes generated from PPE use. PPE must be placed in appropriate containers, labeled, and prepared for disposal separately from other forms of waste. Refer to Roux's General Waste Corporate Management Program for further guidance.

APPENDIX A
EPA's
GUIDELINES TO ENSEMBLES FOR SPECIFIC ACTIVITIES/TASKS
WHERE CHEMICAL EXPOSURE IS POSSIBLE

GUIDELINES TO ENSEMBLES FOR SPECIFIC ACTIVITIES/TASKS
WHERE CHEMICAL EXPOSURE IS POSSIBLE

IMPORTANT: READ FOOTNOTES AND ASSUMPTIONS/JUSTIFICATIONS PRIOR TO USING TABLE

Notes:

1. This table is for use by trained environmental professionals only. To use this table:
   a. Scan the activity description to find activities (bolded) that most closely matches those you plan to engage in.
   b. Review Hazard/Conditions section to make sure the hazards of the planned activity match those listed. Note the Required Work Practices and be ready to follow them.
   c. For those activities most likely to be conducted as part the response, select Targeted Minimum PPE (Personal Protective Equipment).
   d. Necessary equipment needs to be available and used unless other information becomes available which necessitates an upgrade or allows a downgrade in the protection level. The work area must be continuously re-evaluated to ensure workers have the proper safety equipment.
   e. When working in hazardous environments, workers must always be aware of their surroundings. In addition to this Table, workers entering these environments need to use "common sense" prior to proceeding.
2. These ensembles focus on chemical protection and may not be adequate for all hazards. This Table can be used as a starting point but does not circumvent proper evaluation by an industrial hygienist in appropriate situations. See Table 2 for more specific chemical agents.
3. Suits, gloves, boots listed in the Minimum PPE column will not be appropriate for all activities, hazards and conditions. The listings should be used as a guide only. Confirm PPE compatibility with specific chemical contaminants.
4. A comprehensive Task Hazard Analysis must be performed prior to final selection of ensembles/PPE material types.
5. Hardhat (Class A or C), safety glasses/other eye protection are typically required but may not be specified here. In noisy environments (above 85dB) hearing protection is required. In areas where there is traffic, heavy machinery, or other hazards involving worker visibility problems a Class 2 High Visibility Vest must be worn. Activities requiring vests include natural disaster responses, demolitions, and excavations.
6. PPE makes and models referenced in these tables are only suggestions. Other comparable, adequate makes and models may be used.

Activity Description	Hazards/Conditions	Targeted Minimum PPE
Emergency Response and/or Initial Entry/Assessment – Low Hazard Expected (Sites/Facilities): • Air and Radiation Monitoring Sweep • Visual Assessment • Note Taking • Photo-documentation	• Suspected low hazard based on site history/visual evidence. • No CBRN suspected. • No visible/suspected vapors. • No potential for IDLH atmosphere. • Unknown physical hazards. • Some site background information. • No intrusive work expected. • Low potential for chemical splash/contact (based on expected tasks/ known conditions). • **Required Work Practice:** Immediate PPE Change-out (i.e., gloves, etc.) upon contact with chemicals. • **Required Work Practice:** Must follow standard air monitoring protocol.	**Level B** (Downgrade/upgrade based on knowledge of contaminants and monitoring with PID/FID, radiation detector, LEL/O_2 per HASP/ SOSGs) **Respirator: Scott or MSA Full Face** **Suit Type:** [I]Tychem CPF-3 (with boot, hood)/ChemTape **Inner Glove:** [II]Nitrile (6 mil min recommended) **Outer Glove:** [II]Neoprene, Nitrile, (28 mil min recommended) **Outer Steel Toe Boot:** [IV]Tingley HazProof Model 82330 **or** **Steel Toe Boot Cover**: [V]Latex HazMaster Booty and rely on suit boot material for permeation protection. **Steel Toe/Steel Shank Boots:** ASTM F-2413/ANSI Z41 **DECON**: Dry or soap & water

Activity Description	Hazards/Conditions	Targeted Minimum PPE
Emergency Response and/or Initial Entry/Assessment of Unknown – Potential Moderate Hazard (Sites/Facilities): • Air and Radiation Monitoring Sweep • Visual Assessment • Note Taking • Photo-documentation	• Possible high hazard chemicals based on site history/visual evidence (spills, corrosion, industrial practices, etc.). • No CBRN suspected. • No visible/suspected vapors. • **No** reasonable potential for **IDLH** atmosphere. • Unknown physical hazards. • Little/ no site background information. • No intrusive work expected. • Low potential for chemical splash/contact. • **Required Work Practice:** Immediate PPE Change-out (i.e., gloves, etc.) upon contact with chemicals. • **Required Work Practice:** Must follow standard air monitoring protocol.	**Level B** (Downgrade/upgrade based on knowledge of contaminants and monitoring with PID/FID, radiation detector, LEL/O_2 per HASP/ SOSGs) **Respirator: Scott or MSA Full Face** **Suit Type:** [I]Tychem Responder (with boot, hood)/ChemTape **Inner Glove:** [II]Nitrile (6 mil min recommended) **Outer Glove:** [II]Neoprene, Nitrile, (28 mil min recommended) **Outer Steel Toe Boot:** [IV]Tingley HazProof Model 82330 **or** **Steel Toe Boot Cover**: [V]Latex HazMaster Booty and rely on suit boot material for permeation protection. **Steel Toe/Steel Shank Boots:** ASTM F-2413/ANSI Z41 **DECON**: Dry or soap & water

Activity Description	Hazards/Conditions	Targeted Minimum PPE
Emergency Response and/or Initial Entry/Assessment of Unknown - Suspected High Hazard (Sites/Facilities): • Air and Radiation Monitoring Sweep • Visual Assessment • Note Taking • Photo-documentation	• Potential for high hazard chemicals/ IDLH based on site history/visual evidence (visible/expected reactions, spills, vapors, fumes, smoke, known releases, etc.). • No CBRN suspected. • Potential for chemical reactions. • Unknown physical hazards. • Little/ no site background information or information suggesting high hazard. • Intrusive work possible. • Potential for chemical splash/contact. • **Required Work Practice:** Immediate PPE Change-out (i.e., gloves, etc.) upon contact with chemicals. • **Required Work Practice:** Must follow standard air monitoring protocol.	**Level A** (Downgrade/upgrade (Trelleborg, etc.) based on knowledge of contaminants and monitoring with PID/FID, radiation detector, LEL/O_2 per HASP/ SOSGs) **Respirator: Scott or MSA Full Face** **Suit Type:** Encapsulating [I]Tychem Responder/Responder CSM (with boot, hood, gloves)/ChemTape **Inner Glove:** [II]Nitrile (6 mil min recommended) **Outer Glove:** [II]Neoprene, Nitrile, (28 mil min recommended) **Outer Steel Toe/Steel Shank Boot:** [IV]Tingley HazProof Model 82330 and rely on suit boot material for permeation protection. (ASTM F-2413/ANSI Z41) **DECON**: Dry or soap & water: water source for emergency DECON; other DECON agents on hand.

Activity Description	Hazards/Conditions	Targeted Minimum PPE
Drum/Tank Sampling • Container opening • Continuous air monitoring • Product sampling	• Unknown chemicals. • No CBRN. • Potential splash hazard. • Physical hazard controls in place. • Assumes no initial hazardous atmosphere. • Ensure availability of water source for emergency DECON/shower/eyewash. • **Required Work Practice:** Immediate PPE Change-out (i.e., gloves, etc.) upon contact with chemicals. • **Required Work Practice:** Must follow standard air monitoring protocol.	**Level B** (Upgrade/Downgrade based on knowledge of contaminants and monitoring with PID/FID, radiation detector, LEL/O_2 per HASP/ SOSGs) **Respirator: Scott or MSA Full Face** **Suit Type:** [I]Tychem Responder (with boot, hood)/ChemTape **Inner Glove:** [II]Nitrile, Neoprene, Viton, PVC **Outer Glove:** [II]Heavy Duty Butyl, Nitrile, **Other:** ANSI Approved Splash Shield **Outer Steel Toe Boot:** [IV]Tingley HazProof Model 82330 **or** **Steel Toe Boot Cover**: [V]Latex HazMaster Booty and rely on suit boot material for permeation protection. **Steel Toe/Steel Shank Boots:** ASTM F-2413/ANSI Z41 **DECON:** Dry DECON or soap and water; water source for emergency DECON and eyewash suggested.

Activity Description	Hazards/Conditions	Targeted Minimum PPE
Hazardous Categorization Testing (**HAZCAT**) • Opening sample containers in controlled environment • Working with small sample quantities in well ventilated area • Conducting HAZCAT testing with appropriate lab equipment	• Assumes known chemical classes and site situation/background. • No CBRN suspected. • Assumes immediate suit removal if contaminated and frequent glove changes. • **Required Work Practice:** Immediate PPE Change-out (i.e., gloves, etc.) upon contact with chemicals. • **Required Work Practice:** Must follow standard air monitoring protocol.	**Level B** (Upgrade/Downgrade based on knowledge of contaminants and monitoring with PID/FID, radiation detector, LEL/O_2 per HASP/ SOSGs) **Respirator: Scott or MSA Full Face** **Suit Type:** [I]Tychem CPF4 (with hood, boot) **Inner Glove:** [II]Nitrile **Outer Glove:** [II]Viton or 4-H (use surgie over the 4-H for dexterity) **Outer Steel Toe Boot:** [IV]Tingley HazProof Model 82330 **or** **Steel Toe Boot Cover**: [V]Latex HazMaster Booty and rely on suit boot material for permeation protection. **Steel Toe/Steel Shank Boots:** ASTM F-2413/ANSI Z41 **DECON:** Dry or soap and water; water source for emergency DECON and eyewash suggested

Activity Description	Hazards/Conditions	Targeted Minimum PPE
Oil Spill Response/Recovery Operations – Fresh Product: • Recovery operations (vac truck, skimmers, boom deployment where direct contact expected) • Product sampling • Continuous air monitoring at/near source of spill	• Crude oil/diesel/kerosene/gasoline spill. • Assumes fresh/ongoing spill, close proximity to source. • Assumes early phase while evaporation of light organics, benzene/other aromatics is still occurring (24-48 hours or if spill is on-going). • Assumes down-wind location. • Continuous air monitoring required for %LEL, Organics, $\%O_2$ (and H_2S as necessary for sour crude). • **Required Work Practice:** Immediate PPE Change-out (i.e., gloves, etc.) upon contact with chemicals. • **Required Work Practice:** Must follow standard air monitoring protocol.	**Modified Level C:** 1/2 face respirator w/safety glasses/goggles as needed for splash protection. Downgrade as appropriate based on air monitoring. **Respirator: Scott or MSA ½ Face** **Respirator Cartridge:** [III] Multi-Phase Cartridge (Scott 642 Multi-purpose; MSA with/GME P-100 or equivalent). **Suit Type:** [I]Tychem CPF4 w/boot [jet fuel use Tychem BR] **Inner Glove:** [II]Neoprene (for protection at DECON line only, not for prolonged contact) **Outer Glove:** [II]Viton-Butyl Rubber (assumes potential for direct contact with fresh material – based on benzene/aromatic constituents) SEE NEXT ROW FOR WEATHERED PRODUCT. **Outer Steel Toe Boot:** [IV]Tingley HazProof Model 82330 **or** **Steel Toe Boot Cover**: [V]Latex HazMaster Booty and rely on suit boot material for permeation protection. **Steel Toe/Steel Shank Boots:** ASTM F-2413/ANSI Z41 **DECON:** Dry DECON/ Soap and water as feasible

Activity Description	Hazards/Conditions	Targeted Minimum PPE
Oil Spill Response Assessment/Recovery – Weathered Product • Shoreline clean-up assessment (SCAT) • Environmental sampling/weathered product sampling • Recovery Operations for weathered material • Assessment via boat/on or near water – use appropriate flotation device with ensemble.	• Crude oil/diesel/kerosene/gasoline spill. • Assumes weathered oil (over 24-48 hours, depending on spilled material and ambient temperatures). • Assumes operations are remote from source of spill. • Assumes no other potential for airborne aromatics/benzene/flammable vapors.	**Modified Level D** (Upgrade/Downgrade based on potential for contact and air monitoring with FID/PID, LEL/O_2 Meter. **If contact with material suspected, use following:** **Suit Type:** [I]Tychem F w/boot [jet fuel-Tychem BR] (Tychem SL may be an option for weathered crude/diesel – see manufacturer's information) **Inner Glove:** [II]Nitrile **Outer Glove:** [II]Nitrile (Best Nitri-solv 727) **Outer Boot Cover:** [V]Latex HazMaster Booty **Steel Toe/Steel Shank Boots:** ASTM F-2413/ANSI Z41 **DECON:** Dry DECON/Soap and water as feasible

Activity Description	Hazards/Conditions	Targeted Minimum PPE
Demolition/Excavation Operations: • Heavy equipment operation • Excavation/Trenching • Continuous air monitoring when soil is disturbed or demolition activities conducted. • Fuel Oil underground tank removal. • Drum Excavation activities EXCLUDED.	• Demolition activities generating potentially hazardous particulates (asbestos, lead, silica, etc.). • Excavation activities that could expose soil contaminated with low levels of known hazardous chemicals to the surrounding area /in the trench/ excavation. • No potential for IDLH atmosphere. • Site background information available. • Known physical hazards. • Workers will have minimal/ no contact with contaminants (i.e., operators in a cab, inspectors/ observers at a safe distance). • Continuous air monitoring required in trench for %LEL, Toxics, and $\%O_2$ when workers are in trench and for particulate when activities generating particulate are conducted. • **Required Work Practice:** Must follow standard air monitoring protocol.	**Modified Level C:** 1/2 face respirator w/safety glasses. Downgrade or upgrade as appropriate based on air monitoring. **Respirator: Scott or MSA ½ Face** **Respirator Cartridge:** [III] Multi-Phase Cartridge (Scott 642 Multi-purpose P-100; MSA with/GME P-100 or equivalent). **Suit Type:** [I]Proshield Next Gen **Inner Glove:** NA **Outer Glove:** Leather **Outer Steel Toe Boot: NA** **Steel Toe Boot Cover**: [V]Latex HazMaster Booty (if chemical in soil is possible) **Steel Toe/Steel Shank Boots:** ASTM F-2413/ANSI Z41 **DECON:** Dry DECON/ Soap and water as feasible

Activity Description	Hazards/Conditions	Targeted Minimum PPE
Natural Disaster Response (Hurricane, Tornado, Flood, Earthquake) - Orphan Container Recovery: • Routine hand collection/pick-up of small containers from debris piles/lines • Land based operations - conducted on foot **Note:** Physical Hazards may necessitate PPE modifications.	• Unknown materials – confident identification based on visual observations. • **Required Work practice:** re-evaluate prior to moving suspicious containers. Air monitoring and PPE upgrade may be required. • **Required Work Practice:** Immediate PPE Change-out (i.e., gloves, etc.) upon contact with chemicals. • **Required Work Practice:** Must follow standard air monitoring protocol.	**Modified Level D:** Upgrade/downgrade based on suspicious containers (not easily identified visually) and air monitoring with PID/FID, radiation detector, LEL/O_2 per HASP/ SOSGs **Suit Type:** [I]Tychem CPF-3 w/boot **Inner Glove:** [II]Nitrile **Outer Glove:** [II]Nitrile (Best Nitri-solv 727) or Leather **Outer Boot Cover:** [V]Latex HazMaster Booty **Steel Toe/Steel Shank Boots:** ASTM F-2413/ANSI Z41 **DECON:** Dry DECON/Soap and water as feasible
Natural Disaster Response (Hurricane, Tornado, Flood, Earthquake) - Orphan Container Recovery: • Routine Drum recovery from debris lines/piles/ other – conducted on land **Note:** Physical Hazards may necessitate PPE modifications.	• Unknown materials – confident identification based on visual observations. • **Required Work practice:** re-evaluate prior to moving suspicious containers. Air monitoring and PPE upgrade may be required. • **Required Work Practice:** Immediate PPE Change-out (i.e., gloves, etc.) upon contact with chemicals. • **Required Work Practice:** Must follow standard air monitoring protocol.	**Modified Level D:** Upgrade/downgrade based on suspicious containers (not easily identified visually) and air monitoring with PID/FID, radiation detector, LEL/O_2 per HASP/ SOSGs **Suit Type:** [I]Tychem CPF-3 w/boot **Inner Glove:** [II]Nitrile **Outer Glove:** [II]Nitrile (Best Nitri-solv 727) or Leather **Outer Boot Cover** [V]Latex HazMaster Booty **Steel Toe/Steel Shank Boots:** ASTM F-2413/ANSI Z41 **DECON:** Dry DECON/Soap and water as feasible

Activity Description	Hazards/Conditions	Targeted Minimum PPE
Natural Disaster Response (Hurricane, Tornado, Flood, Earthquake) – Flood water sampling: • Water Sampling of flood waters where potential for contact with hands/feet is high **Note:** Physical Hazards may necessitate PPE modifications.	• Unknown contaminants • Potential for pathogens suspected • Low potential for acute exposure to hazardous chemicals • Assumes open air/well ventilated areas **Required Work Practice:** Monitor all poorly ventilated areas in appropriate PPE/Respiratory Protection for organic vapors (PID & FID), %LEL/flammable atmospheres, H_2S prior to entry	**Modified Level D:** Upgrade based on more information as it becomes available. **Suit Type:** [I]Proshield Next Gen **Inner Glove:** [II]Nitrile **Outer Glove:** [II]Nitrile (Best Nitri-solv 727) **Outer Boot**: Waders (butyl, neoprene) as needed. **Steel Toe/Steel Shank Boots:** ASTM F-2413/ANSI Z41 **DECON:** Dry DECON/Soap and water as feasible
Environmental Sampling (Low Concentration Water/Soil/Perimeter Air): • Multi-media Sampling • Documentation (written/photo) • Inspection of clean-up operations	• Known Chemical Contaminants. • Airborne concentrations well below PELs. • Minimal chance of skin exposure to chemicals. • Insects possible.	**Level D:** Upgrade based on more information as it becomes available. **Suit Type:** [I]Proshield 1 (if ticks, etc. maybe a problem) **Inner Glove:** [II]Nitrile **Outer Glove:** NA **Outer Boot:** NA **Steel Toe Boots:** ASTM F-2413/ANSI Z41 **DECON:** NA

i. Tychem and Proshield suits can be purchased from Safeware: 800-331-6707, http://www.safewareinc.com , (see also LSS, http://www.labsafety.com, Dupont: 1-800-931-3456, http://www2.dupont.com/Personal_Protection/en_US/index.html)

ii. Nitrile Inner/Outer Gloves; Viton; Butyl Rubber; 4-H (polymeric) can be purchased from Safeware: 800-331-6707, http://ww.safewareinc.com ; Airgas: 1-866-718-0685, http://www.airgas.com (see also North Safety, http://www.northsafety.com); Best Gloves, http://www.bestglove.com ; Lab Safety Supply (LSS), http://www.labsafety.com; Airbill, http://www.airbill.com)

iii. Multi-Phase Cartridge (Scott 642 Multi-purpose; MSA with/GME P-100 or equivalent) can be purchased from LSS: 1-800-356-0673, http://www.labsafety.com (see also Safeware, http://www.safewareinc.com; Scott Safety, http://www.scotthealthsafety.com/; MSA, http://www.msanet.com/)

iv. Tingley HazProof Overboots or similar can be purchased from LSS: 1-800-356-0673, http://www.labsafety.com; National Safety, Inc.: 1-800-213-7092, http://www.nationalsafetyinc.com

v. Latex Hazmaster Booties, Nuke Boot or similar can be purchased from Safeware: 800-331-6707, http://www.safewareinc.com; Airbill: 1-215-632-2000, http://www.airbill.com; (see also Airgas, http://www.airgas.com; LSS, http://www.labsafety.com

APPENDIX E

Subsurface Utility Clearance Management Program

SUBSURFACE UTILITY CLEARANCE MANAGEMENT PROGRAM

CORPORATE HEALTH AND SAFETY DIRECTOR	:	**Brian Hobbs, CIH, CSP**
EFFECTIVE DATE	:	**01/2019**
REVIEW DATE	:	**03/2024**
REVISION NUMBER	:	**4**

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APPENDICES

Appendix A – Roux Subsurface Utility Clearance Checklist/ Utility Verification/Site Walkthrough Record

Appendix B – Private Utility Technology Applications and Considerations

1. PURPOSE

Roux Associates, Inc. and its affiliated companies, Roux Environmental Engineering and Geology, D.P.C., and Remedial Engineering (collectively, "Roux") has instituted the following program for completing proper utility mark-outs and for conducting subsurface clearance activities. This establishes a method to ensure, to the greatest extent possible, that utilities have been identified and contact and/or damage to underground utilities and other subsurface structures will be avoided. For the purpose of this program, a structure is defined as any underground feature that may present a potential source(s) of energy, such as, but not limited to, utility vaults, bunkers, piping, electrical boxes, wires, conduits, culverts, utility lines, underground tanks, and ducts.

2. SCOPE AND APPLICABILITY

The Subsurface Utility Clearance Management Program applies to all Roux employees, its contractors, and subcontractors. Employees are expected to follow this program for all intrusive work involving Roux or other personnel (e.g., contractors/subcontractors) working for Roux unless the client's requirements are more stringent. Intrusive work activities can include, but are not limited to, digging or scraping the ground surface, including, but not limited to, excavation; test pitting or trenching; soil vapor sampling or the installation of soil borings, soil vapor monitoring points and wells, or monitoring wells; and drilling within concrete slabs on grade.

Deviation from the program, regardless of the specific work activity or location, must be pre-approved based on the client's site knowledge, experience, site conditions, and additional documentation on the site. Any exceptions shall be documented through the Roux Subsurface Utility Clearance Variance Form located within the Roux Health & Safety Online Application or through OKTA. Approval is required by the Project Principal (PP) and the Operations Manager (OM) in consultation with the Office Health and Safety Manager (OHSM) or Corporate Health and Safety Director (CHSD) prior to mobilization. Depending on the work location, more stringent federal, state, local, or client requirements may apply. It is the responsibility of the Project Team to identify such requirements prior to mobilization.

3. PROCEDURES

3.1 Before Intrusive Activities/Job Planning Process

Prior to intrusive work at a site, the Project Manager (PM) shall ensure that the notification of the State One Call or equivalent service (Nationwide-811) is completed a minimum of 48-72 hours (One-Call State Law Directory) before intrusive work activities (this timeline excludes Saturdays, Sundays, Legal Holidays and 811 observed holidays). This notification is required by law for all states. State-specific/local laws related to utility location may vary. The project team is responsible for understanding requirements that may affect their work site.

Obtain, review, and field verify relevant historical site data that may include: as-builts/site plans; easement/right-of-way information; historical aerial photos/development plans; local/state permitting records; previous site investigation/boring logs; and/or interviews with site representative/client. Interviews with site or client personnel should ask the following:

- Employee(s) Name and Relationship with the site;
- Types of utilities, including structure and location of utilities on-site;
- Depth of known utilities; and

- Any other relevant information as it pertains to the site.

Prior to intrusive work activities, information pertaining to the site should be included in Roux's Subsurface Utility Clearance Checklist and Utility Verification/Site Walkthrough forms. This form is located within the Roux Health & Safety Online Application or through OKTA.

If there is the potential for unexploded ordinances or munitions, consultation with your OM and CHSD is required prior to site operations.

3.1.1 Project Kick-Off Meeting

During the project kick-off meeting for intrusive activities, the PM will review the Roux Subsurface Utility Clearance Checklist, Utility Verification / Site Walkthrough Record (Appendix A) and the below bullet points with the project field team:

- Confirm that the State One Call or equivalent is received and that the ticket number is confirmed, reviewed, and valid for the time of work. If intrusive work activities are not conducted during this valid time period, the One Call ticket must be renewed, and the site must be remarked;
- Review the work scope to be performed with the site owner/tenant to determine if it may impact any utilities;
- Determine the need for utility owner companies to be contacted or to have their representatives on site;
- Where mark-outs terminate at the property boundary, consider the use of private utility locating / (e.g., Radio Frequency Detection, Electromagnetic Induction), Ground Penetrating Radar (GPR) , and other applicable geophysical inspection services. The use of private utility locating firms, however, does not eliminate the legal requirement for the subcontractor (e.g., driller, excavation firm) to submit a request for Public Utility Mark-outs. Also, the information provided by the service may be inaccurate and unable to locate subsurface utilities and structures in urban areas, landfills, urban fill areas, below-reinforced slabs, etc. They should not be relied upon as the only means of performing utility clearance;
    - A mark-out is defined as the process of contracting with a competent and qualified company to confirm the presence or absence of underground utilities and structures. This process will clearly mark out and delineate identified utilities so that intrusive work activities can be performed without causing disturbance or damage to the subsurface utilities and structures. After utility mark-outs are completed, soft Digging must completed prior to intrusive work. Section 3.4 Preferred Methods of Clearing the Subsurface (Pre-Clearing) outlines requirements for pre-clearing techniques in order of preference.
- Documented description of the dig site, which is included in the project's Health and Safety Plan (HASP), and one call report will be maintained in the field and distributed amongst Roux personnel, its contractors, and subcontractors; and
- Documentation of the actual placement of mark outs in the field shall be collected using dated pictures, videos, and/or sketches with distance from markings to fixed objects. All documentation shall be maintained within the project file.

3.2 Utility Mark Out

- Ensure the Mark-out / Stake-out Request Information Sheet (or one-call report) is complete and accurate for the site, including address and cross streets, and review for missing utilities. Ensure ticket life is still valid for work.

  - Note: utility mark-out organizations do not have contracts with all utilities, and it is often necessary to contact certain utilities separately, such as the local water and sewer authorities, local transportation departments, and railroad operators. In the event the Project Teams anticipate subsurface work will impact public utilities, railroad operations, or public roadways, coordination with the utility owners/operators is required.

- Have written confirmation prior to mobilizing to the site that the Project Team or Roux personnel performing the intrusive activity has correctly completed the mark-out notification process, including requesting mark-outs, waiting for mark-outs to be applied to ground surfaces at the site, and receiving written confirmation of findings (via fax or email) from utility operators for all known or suspected utilities in the proposed area of intrusive activity, and provided utility owner written confirmation to Roux personnel for review and project files documentation.
- Do not begin any intrusive activity until all utility mark-outs have been completed (i.e., Did all utilities mark-out the site?) and any unresolved mark-out issues are finalized. Perform a site walk to review the existing utilities and determine if the utility locators have located said utilities.

  (Note: The Tolerance Zone is defined as three feet from the outside edge of any subsurface structure.)
- For non-subscribing utility owners or if public one-call service is not available, perform due diligence and request further information regarding utility type, construction details, location, and burial depth directly from public service providers/utility owners. Request utility mark-out by each public service provider/utility owner as applicable. Confirm contact and response by each public utility owner on the Subsurface Utility Clearance Checklist.
- If utilizing a Private Mark out, ensure the contractor has a plan regarding what types of technology will be used based on Table 1 in Appendix B: Private Utility Technology Applications and Considerations. If possible, it is recommended that multiple technologies be used to sweep each location/work area. Use a tracer wire to locate the utility (when tracer wires are present). Record the results of the private utility mark-out on the Utility Verification/Site Walkthrough Record form.

3.3 Site Visit/Utility Walkthrough

Before mobilization with the subcontractor or during the pre-work safety tailgate with the subcontractor, perform a site walkthrough after utility mark-outs have been completed to determine whether additional potential hazards are present and look for visible signs of utilities that may be present. Outlined below are considerations regarding a site walk before intrusive activities. Before initiating any intrusive work, verify that the utilities marked on-site align with the information provided in the One Call response notification/ticket and with site plans and documents. If any discrepancies arise, address them promptly to ensure accuracy and do not start intrusive work until they are rectified.

- Identify overhead utilities that may impede equipment mobilization or work zones to ensure adequate Occupational Safety and Health Administration (OSHA) clearance distance(s), as specified within the site-specific Health and Safety Plan (HASP) and 29 CFR 1926.1408 Table A.

The presence of any of the following may indicate potential subsurface structures:

- Locations of buildings, equipment, and features like area lights, signs, sprinkler systems, phones, drains, natural gas meters, manholes, etc.;
- Warning tape, which is often a sign of underground services;
- Material like pea gravel, sand, or other non-native materials can indicate the presence of tanks or lines or any deviations from the established native soil or backfill conditions;

- Red concrete, which is often used for electrical duct banks;
- Evidence of damaged utilities, such as piping materials, insulation, or odors present in the work area; and
- Other utilities, including fire hydrants, electrical transformers, pipeline markers, valve covers, steam lines, valve box covers, clean-outs, etc.

By observing the path between the main service line and the connection point (e.g., a utility meter at the exterior of the site building), it may be possible to determine the likely routing of on-site utilities. However, this method should not be relied upon solely, and proper risk mitigation strategies should be in place before proceeding with any ground disturbance activities. Look outside your work zone for other potential utilities that may cross through your work zone.

For sites with potential underground storage tanks present (UST), the following guidance applies:

- Identify if the product piping is either rigid or flexible.
- Conduct a visual examination of the tank field, observation wells, dispensers, vent stacks, and UST fill points to determine their location.
- Locate and become familiar with the emergency shutoff button/switch, if present.
- Determine the orientation, arrangement, and location of the tanks, as well as their size and capacity, through the examination of visible features at grade, such as fill ports and extractor covers, and by consulting any available as-built drawings.

Before commencing any subsurface intrusive work, field staff should thoroughly address any discrepancies in utility company mark-outs or the absence of mark-outs.

3.3.1 Project Management-Field Personnel

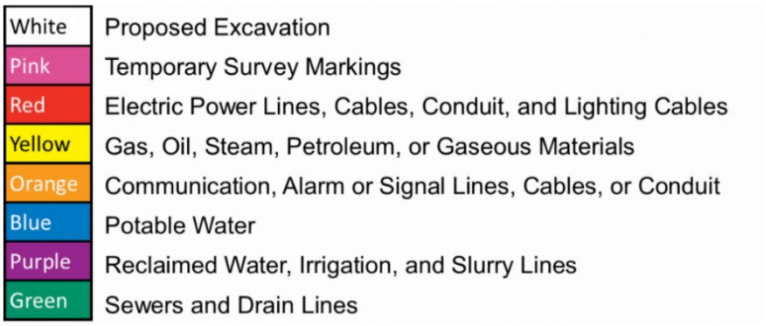
Whenever possible, it is advisable to assign the same project personnel to both utility location and clearance tasks as well as intrusive activities. This continuity ensures that site knowledge and utility information gathered during the clearance phase remain up-to-date. Having this historical perspective helps minimize the risk potential of utility strikes.

In cases where maintaining the same personnel throughout the project isn't feasible, a thorough knowledge transfer regarding site utilities, locations, clearance results, and proposed intrusive activities becomes essential. The PM must ensure that there is a successful handoff of information when there is a change in field personnel.

3.3.2 Utility Markings

The utility marking color code includes various uniform colors. The following APWA uniform color code (ANSI Z535.1) is provided below. While certain government agencies or large industrial facilities may use additional colors, Roux's policy is to consider any unlisted paint marking or pin flag color as a subsurface utility marking unless proven otherwise.

If utilities or subsurface anomalies are identified but their type or classification remains uncertain, it is advised to employ pink paint or pin flag (Temporary Survey Marking) for marking. Once the utility type is definitively established, the pink marks should be updated to accurately represent the correct type of utility.

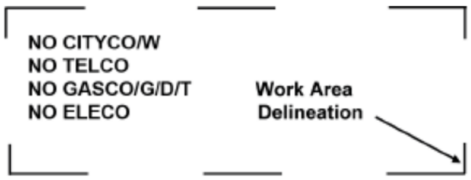


Understanding the markings left by locators during the 811 process is crucial for avoiding utility-related issues. Typically, these markings are done when Roux staff members are not physically present on-site. To enhance understanding/accuracy, it is advisable for staff to be present during the 811 process or engage in conversations with locators, both public and private, while on-site. Additionally, utility marks must adhere to the proper standards outlined in the Uniform Color Code.

Common Abbreviations

Source: Common Ground Alliance

Facility Identifier		**Underground Construction Descriptions**		**Infrastructure Materials**	
CH	Chemical	C	Conduit	ABS	Acrylonitrile - Butadiene - Styrene
E	Electric	CDR	Corridor	ACP	Asbestos Cement Pipe
FO	Fiber Optic	D	Distribution Facility	CL	Cast Iron
G	Gas	DB	Direct Buried	CMC	Cement Mortar Coated
LPG	Liquefied Petroleum	DE	Dead End	CML	Cement Mortar Lined
PP	Petroleum Products	JT	Joint Trench	CPP	Corrugated Plastic Pipe
RR	Railroad Signal	HP	High Pressure	CMP	Corrugated Metal Pipe
S	Sewer	HH	Hand Hole	CU	Copper
SD	Storm Drain	MH	Manhole	CWD	Creosote Wood Duct
SS	Storm Sewer	PB	Pull Box	HDPE	High Density Polyethylene
SL	Street Lighting	R	Radius	MTD	Multiple Tile Duct
STM	Steam	STR	Structure (vaults, junction inlets, lift station)	PLA	Plastic (conduit or pipe)
SP	Slurry System	T	Transmission Facility	RCB	Reinforced Concrete Box
TEL	Telephone			RCP	Reinforced Concrete Pipe
TS	Traffic Signal			RF	Reinforced Fiberglass
TV	Television			SCCP	Steel Cylinder Concrete Pipe
W	Water			STL	Steel
W	Reclaimed Water "Purple"			VCP	Vertrified Clay Pipe



3.4 Preferred Methods of Clearing the Subsurface (Pre-Clearing)

At least one of the methods listed below shall be carried out during pre-clearing activities. The Project Team is responsible for evaluating risks associated with the Scope of Work to determine which method is selected. If none of the following pre-clearing activities are performed, a Subsurface Utility Clearance Variance must be submitted to the OM. This Subsurface Utility Clearance Variance must provide clear lines of evidence that there are no utilities present within the intrusive work zone. Examples include demolition permits of the site, utility closure documents indicating no live utilities on-site, as-builts, site history, etc.

The following approaches shall be considered and implemented based on the Scope of Work.

- ***Soft Digging***
  - This is the preferred method of utility clearance when clearing higher-risk utilities. Soil should be cleared through the use of a vacuum truck/equivalent, an accompanying air knife (preferred), or a water lance to break up and loosen the soil for removal with the vacuum.
- ***Hand Digging***
  - Soil should be broken up and removed using a shovel or other appropriate hand tools without excessive force. Limit the use of dig bars or other tools that, if used incorrectly, can significantly damage utilities.
- ***Hand Augering***
  - The hand auger must be turned slowly using even hand pressure without excessive force. Rounded edge augers are preferred. Hand augers should not be used in pea stone/pea gravel where utilities may be present and could potentially be damaged by the hand auger. The abrupt absence of soil recovery in a hand auger could indicate utilities as pea gravel or sand may have spilled out of the auger (exception: native soil conditions that typically result in poor hand auger recoveries). If any resistance is encountered while operating the hand auger for pre-clearance, the equipment will be removed, and the exploratory test hole will be visually inspected by onsite personnel for any obstructions or indications of subsurface structures.

3.4.1 Guidance for Tools and Equipment

Personnel performing pre-clearance activities shall keep tools and equipment in safe working order and be properly inspected before use. If tools or equipment are broken, they will be tagged and removed from service. The following specify additional guidelines regarding tools and equipment:

- Hand-digging tools must have a non-conductive handle, such as fiberglass, wood, or composite, or fully insulated handles and potential contact surfaces.
- Blades on shovels and post-hole diggers should have rounded or blunt edges.
- Pick axes or pointed spades should not be used for physical clearance.
- Crowbars, pinch-bars, or pry bars should not be used to break hardened soil or backfill except when authorized by the Site Supervisor (SS). This should only be used to loosen materials like bricks or larger stones.

- Electric-powered equipment must have ground fault protection.
- Should there be refusal or difficulty with advancing hand tools, the contractor shall stop work and notify the Roux SS or Site Health and Safety Officer (SHSO) immediately.

3.5 During Intrusive Activities

3.5.1 Concrete/Paving Surface Removal

Remove any surface coverings (i.e., pavement, brush, debris, etc.) to ensure workers have clear visibility of the work area and subsurface conditions. Avoid mechanical jackhammering over known lines unless they are de-energized, locked-out/tagged-out, and potential repairs are planned or if the utility has been completely disconnected prior. When cutting or coring, go only as far as needed to penetrate the surface cover. When removing a large surface area, begin at the perimeter of the removal zone. This initial step helps identify any utilities passing through the work zone. For extensive areas, using a concrete saw might not be practical. Instead, heavy equipment is often employed. During this process, a designated spotter should guide the heavy equipment. Their role is to watch for warning signs of utilities. It's crucial that the heavy equipment does not have "teeth" that could potentially pass through the surface and damage utilities.

3.5.2 Pre-Clearance Procedures

Install pre-clearance exploratory test holes using one of the techniques, as outlined in Section 3.4, for the first 5-ft below land surface (BLS) at each location before conducting intrusive mechanized activities. Should utilities be located at a greater depth than 5-ft BLS consult with the OM, OHSM and CHSD regarding adjustments to the pre-clearance requirements to go greater than 5-ft BLS. Some Clients may require greater than 5-ft BLS for pre-clearance test holes; Project teams should be aware of such Client requirements prior to work.

Pre-clearance exploratory test holes should be defined in the SOW/proposal provided to the client to prevent project delays and to allow adequate time for the PM and PP to evaluate alternative approaches for the project. Alternative approaches will need to be pre-approved by the OM through a Subsurface Utility Clearance Variance.

Both single-point and three-point clearance are acceptable as long as the following criteria are met below. For single-point clearance, the exploratory test hole is advanced at the exact location of the proposed borehole. If three-point clearance is performed, it must be done in a triangular pattern around the proposed borehole and in a configuration that would not allow utilities to enter the borehole.

- The size of the pre-clearance exploratory test hole should be, at a minimum, twice the diameter of any downhole tool or boring device.
- For direct push applications (CPT, Geoprobe®, etc.), the borehole clearance diameter shall be at least 125% of the diameter of the largest tool being pushed through the subsurface (e.g., tip, rod, sampler, etc.), to the minimum required depth.
- For excavations, all utilities need to be marked and then exposed by soft-digging or by hand following the protocols in this program. Pre-clearing for excavations may be performed by the "moat" technique (i.e., soft Digging around the perimeter). In these cases, dig in small lifts (<12" for first 5 feet) using a dedicated spotter.)
- For Tolerance Zone work, unless otherwise agreed upon with the Utility Operator, work within the tolerance zone requires verification by means of pre-clearance test holes specified in Section 3.4 to expose the utility. Once structures have been verified, a minimum clearance of three feet must be maintained between the utility and any powered equipment. If considered a high-risk utility, additional requirements may be necessary and required by the Operator of the utility. Consultation with the OM and CHSD may be appropriate.

The PM, field team lead, or personnel performing oversight is to:

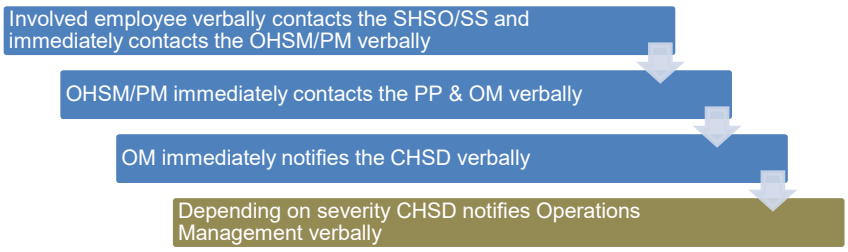
- Ensure the mark-out remains valid. (In certain states, there are limits regarding the duration of time after the mark-out was applied to the ground surface work can be started or interrupted.) Additionally, the mark-outs must be maintained, documented, and in many cases, refreshed periodically to be considered valid. This will be accomplished through calls to the one call center.
- Ensure intrusive activities are only performed within the safe boundaries of the mark-out as detailed in the One-Call Report.
- Halt all work if intrusive activities have resulted in the discovery of an unmarked utility. Roux personnel shall notify the facility owner/operator and the one call center. All incidents such as this will be reported as per Roux Incident Investigation and Reporting Management Program.
- Halt all work if intrusive activities must take place outside of the safe boundaries of a mark-out and only proceed after new mark-outs and subsurface utility clearance are performed.
- Halt the intrusive activities and immediately consult with the PP if an unmarked utility is encountered.
- Complete any loss reports associated with subsurface utility strikes as necessary.
- If a utility cannot be found as marked, Roux personnel shall notify the facility owner/operator directly or through the one-call center. If the facility operator is not responsive, then the one-call center must be notified. Following notification, the excavation/mechanical intrusive work may continue unless otherwise specified in state law.
- Contractors/subcontractors must contact the one-call center to refresh the ticket when the excavation continues past the life of the ticket. State law dictates ticket life. Project teams must be aware of their state-specific requirements.

3.6 Stop Work Authority

Each Roux employee has Stop Work Authority that he or she will execute upon determination of any imminent safety hazard, emergency situation, or other potentially dangerous situation, such as hazardous weather conditions. This Stop Work Authority includes subsurface clearance issues such as the adequacy of a mark-out or identification during intrusive operations of an unexpected underground utility. Authorization to proceed with work will be issued by the PM/PP in consultation with the OHSM after such action is reviewed and resolved. The PM will initiate and execute all management notifications and contact emergency facilities and personnel when this action is appropriate.

3.7 Reporting Utility Incidents

Roux field personnel engaged in any utility strike (e.g., subsurface/aboveground) must promptly stop work, shutdown any equipment and get to a safe location at the Site. Then notify the PM to discuss the incident. In case of injuries, field personnel must call 911 or the local emergency services number and then inform the PM. Additional notifications shall follow Roux's Incident Notification Process. Depending on the utility strike additional notifications shall be made to utility operators and/or clients/site contacts.



Appendix A
Roux Subsurface Utility Clearance Checklist

Appendix A

Roux Subsurface Utility Clearance Checklist/Utility Verification/Site Walkthrough Record

Roux Subsurface Utility Clearance Checklist ***Date of Revision: 3/2024***

Work site set-up and work execution

ACTIVITY	Yes	No	N/A	COMMENTS INCLUDING JUSTIFICATION IF RESPONSE IS NO OR NOT APPLICABLE
Daily site safety meeting conducted, SPSAs performed, JSAs reviewed, appropriate work permits obtained (if applicable).				
HASP is available and reviewed by site workers / visitors.				
Subsurface Utility Clearance Procedure has been reviewed with all site workers.				
Mechanical intrusive work activities may not be performed at any location without authorization from the Roux Site Supervisor (SS). Clearance activities may not be performed at any location unless the SS is physically present.				
Work area secured; traffic control established as needed. Emergency shut-off switch located. Fire extinguishers / other safety equipment available as needed.				
Utility mark-outs (public / private) clear and visible. Provide Excavator's Stake-Out Reference Number / Request Date / Time.				
Tolerance zone work identified. Intrusive work activities cannot be performed in areas that are in direct conflict with any markings made by public or private locators.				
Unless the PP & OM authorizes it, all boreholes and test pit locations must be physically cleared before using mechanized equipment. Required minimum physical clearance depths and diameters are as follows: • Physically clear to a depth of 5 feet bls. • The size of the pre-clearance exploratory test hole must be, at a minimum, twice the diameter of any downhole tool or boring device. • For direct push applications (CPT, Geoprobe®, etc.) the borehole clearance diameter shall be at least 125% to the diameter of the largest tool being pushed through the subsurface (e.g., tip, rod, sampler, etc.).				
Work execution plan reviewed and adhered to (ground disturbance methods, clearance depths, any special utility protection requirements, or any other execution requirements; especially for Tolerance Zone work).				

Mechanical intrusive work is prohibited within 3-feet distance in all directions from subsurface structures that will be intentionally exposed during pre-clearance. Any removal of material within 3-feet of the subsurface structure may only proceed by hand using non-conductive tools/compressed air if authorized by state law and the owner/operator of the utility.				
All equipment onsite must maintain the appropriate horizontal distance from any point on the equipment to the nearest overhead electrical power line. Refer to site-specific HASP and local/utility company requirements.				
Verbal endorsement received from Roux PM and OM for any required field deviations to work execution plan.				

Key Reminders for Execution

The Subsurface Utility Clearance Protocol should be referenced to determine all requirements while executing subsurface work. The bullet points below are intended as general reminders only and should not be relied upon solely.

- The size of the pre-clearance exploratory test hole must be at a minimum twice the diameter of any downhole tool or boring device to minimum required depth of 5 feet bls.
- For direct push applications (CPT, Geoprobe®, etc.) the borehole clearance diameter shall be at least 125% of the diameter of the largest tool being pushed through the subsurface (e.g., tip, rod, sampler, etc.), to the minimum required depth of 5 feet bls.
- The tolerance zone is defined as three feet plus half of the diameter or half of the greatest dimension (for elliptical sewers, duct banks, and other non-cylindrical utilities) of a utility and three feet from the outside of any subsurface structure.
- For excavations, all utilities need to be marked and then exposed by hand, following the protocols in this program. Pre-clearing for excavations may be performed by the “moat” technique (i.e., soft digging around the perimeter). In these cases, dig in small lifts (<12” for first five feet) using a dedicated spotter.) For Tolerance Zone work, unless otherwise agreed upon with the Utility Operator, work within the tolerance zone requires verification by means of hand-dug test holes to expose the utility. Once structures have been verified, a minimum clearance of three feet must be maintained between the utility and any powered equipment.

Utility Verification/Site Walkthrough Record

Employee Name:_____

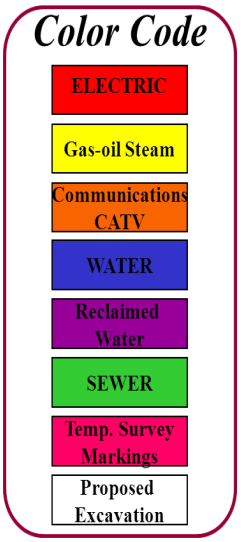
Date: _____

Instructions: For each utility suspected at the job site, indicate the location on the job site, approximate burial depth, and means of detecting the utility. Leave blank if that utility is not believed to be present.

Utility	Description of Utility Location Identified Onsite	Approx. Depth (bls)	Method / Instrumentation used to determine Utility Location	Utility Owner Response (Date/Time)	Mark Out Indicates (Clear / Conflict)
Electrical Lines					
Gas Lines					
Pipelines					
Steam Lines					
Water Lines					
Sanitary and Stormwater Sewer lines					
Pressured Air-Lines					
Tank Vent Lines					
Fiber Optic Lines					
Underground Storage Tanks					
Phone Lines/ Other					

* bls - below land surface

Site Sketch Showing Utilities:



Other Comments / Findings:

Completed by: _____

Signature: _____ Date: _____

Appendix B
Private Utility Technology Applications and Considerations

Appendix B – Private Utility Technology Applications and Considerations

Technology ⇒ Utility/Object ⇓	Radio Frequency Electro-Magnetic Detector (connection to utility, or induction without connection)	Radio Frequency Electro-Magnetic Detector (passive sweep)	Ground Penetrating Radar (GPR)⊙	Acoustic Plastic Pipe Locator	Beacon, Sonde or Conductive Rodder Insertion	EM-61 (time domain electromagnetics) Ξ	
Power/Instrument Line (Energized/Signaled) □	❋ G	G	G	R	R	G	
Power Line (Non-energized) □	❋ G	R	G	R	R	G	
Sewer/Water Line (Metallic) □	❋ G	Y	G	Y	G	G	
Sewer/Water Line (Non-metallic)	R	R	G	G	❋ G	R	
Instrument / Telecomm Lines (Non-energized)	❋ G	R	G	R	R	Y Only if metallic	
Hydrocarbon Transmission Line (Pipeline)◆ □	❋ G	R	G	R	R	G	
Metallic/Non-Metallic Line (with Tracer Wire)	❋ G	Y	G	Y	Y	G metallic	Y non-metallic
Metallic/Non-Metallic Line (without Tracer Wire)	G metallic	R non-metallic	R	❋ G	Y	Y	G metallic	R non-metallic
Metal or Fiberglass UST	R	R	❋ G	R	R	G metallic	R non-metallic

Additional Considerations

Technology ⇒ Variable ⇓	Radio Frequency Electro-Magnetic Detector	Ground Penetrating Radar (GPR)⊙	Acoustic Pipe Locator	Beacon, Sonde, or Conductive Rodder Insertion	EM-61 Ξ
Moist Soil	G	Y	G	G	G
Dry Soil	Y	G	Y	G	G
Clay	Y	R	G	G	G
Concrete w/Rebar	R	Y	G	G	R
Long Horizontal Profile	G	G	G	G	G
Short Horizontal but Deep Vertical Profile	Y	G	R	R	G
Access to Line✚	G	N/A	G	G	G
No Access to Line✚	G (induction or passive)	G	R	R	G
	R (direct connect)				G
Ferrous Metal	G	G	G	G	G
Non-ferrous Metal	Y	G	G	G	G
Adjacent or crossing conductive utility(ies)	Y	N/A	N/A	N/A	Y

Each site will be unique. Do not use this table as the sole criteria for technology selection. Use it as a starting point to assess available, applicable technology(s).

❋ Indicates best technology for given object. Site structures, rebar in concrete, shallow groundwater tables, perched storm water, etc. can significantly affect performance and reliability of any electro/magnetic method. Other utilities which cross or are adjacent to the target line can cause the EM signal to bleed or jump to the other utility line.

□ Metallic lines that have power running through them or can be connected to a tracer signal generator.

◆ Natural gas pipeline locating technicians must be trained/certified (in the U.S. requires DOT and Office of Pipeline Safety standards, other regions may have similar certification or requirements).

⊙ Most sensitive to interpretation. The skill, training and experience of operator are critical.

Ξ Emerging technology with limited availability.

✚ Access: induce unique electronic signature, apply acoustical impulse or insert conductive rodder/beacon/sonde.

Green Generally, an applicable technology **Yellow** May or may not be applicable **Red** Not generally applicable

APPENDIX F

Heavy Equipment Exclusion Zone Policy

HEAVY EQUIPMENT EXCLUSION ZONE MANAGEMENT PROGRAM

CORPORATE HEALTH AND SAFETY DIRECTOR	**:**	**Brian Hobbs, CIH, CSP**
EFFECTIVE DATE	**:**	**01/2019**
REVIEWED DATE	**:**	**03/2024**
REVISION NUMBER	**:**	**3**

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3. PROCEDURES 1
   3.1 Exceptions 2
4. TRAINING 2
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1. PURPOSE

The Exclusion Zone Management Program aims to establish the minimum clearance distance that must be maintained between workers and heavy equipment while equipment is in operation (i.e., engaged or moving). The intent is to have no personnel or equipment entering the Exclusion Zone while the equipment is in operation or moving to ensure that Roux and Subcontractor employees are unnecessarily exposed to the hazards of the equipment.

2. SCOPE AND APPLICABILITY

This Management Program applies to all Roux Associates, Inc. and its affiliated companies, Roux Environmental Engineering and Geology, D.P.C., and Remedial Engineering (collectively, "Roux") employees and their subcontractors performing fieldwork and are potentially exposed to heavy equipment. Heavy equipment includes, but is not necessarily limited to, excavation equipment, drill rigs, vacuum trucks, forklifts, lull telehandlers, man lifts, bobcats, delivery trucks, etc.

3. PROCEDURES

As specified in the following sections of this program, Exclusion Zones must be established and maintained during activities involving the movement/operation of heavy equipment. The Exclusion Zone requirements apply to all personnel on the site but are primarily focused on personnel required to work near the equipment. The exclusion zone is in effect when heavy equipment is moving or engaged (e.g., movement of an arm or bucket of an excavator, rotation of an auger, lifting of a load with a forklift, raising/lowering of a man lift, etc.).

1. The Exclusion Zone must meet the following minimum requirements:
   - A minimum distance of 10 feet from all heavy equipment and loads being moved by the equipment;
   - Greater than the swing/reach radius of any moving part on the heavy equipment (i.e., for large equipment, this may mean an exclusion zone distance larger than 20 feet);
   - Greater than the fall zone of equipment and their contents; and
   - Greater than the tip-over distance of the heavy equipment.

   The size of the Exclusion Zone will need to be determined on a task-specific basis considering the size of the heavy equipment in use and the task being performed. Prior to all heavy equipment operations, the Exclusion Zone(s) distance must be specifically identified in the Job Planning Process and incorporated in the pre-job tailgate meeting with the subcontractor(s), including any updates to our Job Safety Analysis (JSA).
2. The spotter (or another authorized individual) is responsible for enforcing the Exclusion Zone and not conducting any other task. The spotter should be positioned immediately outside of the Exclusion Zone within a clear line of sight of the equipment operator. The spotter must signal the operator to stop work if anyone or anything has the potential to enter or compromise the Exclusion Zone. The operator should stop work if the spotter is not within their line of sight. If a spotter must be within the Exclusion Zone, they must be in a designated area outside the swing/tip radius, fall zone, line of fire of lifted loads, etc. If multiple pieces of equipment are being used, one spotter may be adequate so long as there is a clear line of sight and the spotter can control the zone(s). Radios would be required since hand signals would not be adequate if two pieces of equipment are in operation at the same time in the Exclusion Zone.

3. If an individual must enter the Exclusion Zone, the designated Spotter must signal the Equipment Operator to stop the equipment. Once the equipment is no longer moving (e.g., movement of an arm of an excavator is STOPPED, lifting of a load with a forklift STOPPED, raising/lowering of a man lift is STOPPED, etc.), the operator must bring the boom/arm to the ground ensuring a “Zero Energy State” and DISENGAGE THE CONTROLS and STOP and SIGNAL BY “SHOWING HIS HANDS.” This signal will indicate that it is safe for the person to enter the limits of the Exclusion Zone to perform the required activity. The equipment must remain completely stopped/disengaged until all personnel exited the Exclusion Zone's boundaries and the designated Spotter has signaled by “SHOWING HIS HANDS” to the Equipment Operator that it is safe to resume operations.
4. When entering the limits of the Exclusion Zone, personnel must, at a minimum:
    - Establish eye contact with the operator and approach the heavy equipment in a manner that is in direct line of sight to the Equipment Operator;
    - Never walk under any suspended loads or raised booms/arms of the heavy equipment; and
    - Identify a travel path free of Slip/Trip/Fall hazards.
5. The Exclusion Zone should be delineated using cones with orange snow fences or solid poles between the cones, barrels, tape, or other measures. For work in rights-of-way, rigid barriers, such as Jersey barriers or temporary chain link fences, should be used. For certain types of widespread or moving/mobile equipment operations, such delineation may not be practicable around equipment or individual work areas. In such instances, it is expected that the entire operation will be within a larger secure work area or that additional means will be utilized to ensure the security of the work zone.

All subcontractors who provide heavy equipment operations to field projects must implement a program that meets or exceeds the expectations described above as well as any additional requirements that may be required on a client or site-specific basis. Logistics involving heavy equipment should be understood and discussed prior to the field event during the job planning phase.

3.1 Exceptions

It is recognized that certain heavy equipment activities may require personnel to work within the limits of the Exclusion Zone as specified in this program. Such activities may include certain excavation clearance tasks, drill crew activities, or construction tasks. However, any such activity must be pre-planned, emphasizing limiting the amount and potential exposure of any activity required within the zone. The critical safety steps to mitigate the hazards associated with working within the Exclusion Zone must be defined in the JSA and potentially other project-specific plans (i.e., critical lift plans, etc.), and approved by the Roux Project Principal (PP), Office Health and Safety Manager (OHSM) and client representative, if required, prior to implementation.

4. TRAINING

Many Roux projects have different requirements that are client-specific or site-specific in nature. However, all Roux employees are provided initial training, as well as annually thereafter, on our Heavy Equipment Exclusion zone policy.

5. STOP WORK AUTHORITY

All Roux employees and their subcontractors have stop-work authority. Upon initial hire, all Roux employees are provided initial safety orientation, including stop work authority. All Roux employees and subcontractors are encouraged to stop work whenever any task or operation presents unreasonable risk or employees are

unsure how to carry out work safely. This includes upon observing any questionable safety-related behavior or condition, they are to stop work immediately and discuss the behavior or condition with the individual(s) involved. Upon stopping work, the following actions will be taken:

- Notify the affected parties to include the Project Manager (PM) and Site Health and Safety Officer (SHSO);
- Work to correct the situation or not proceed until the situation is corrected by the PM or SHSO;
- Resume work only when told to proceed by either the PM or SHSO;
- The SHSO will document the Stop-Work intervention in the field logbook;
- Stop-Work interventions will be reported to the PP for review to ensure the interventions are closed; and
- The PP will share learnings from the interventions, as appropriate, throughout the firm, to demonstrate the importance of the Stop-Work interventions.

Please note: Any form of retribution or intimidation directed at any individual or company for exercising their right to issue a stop work authority will not be tolerated.

APPENDIX D

Community Air Monitoring Plan

New York State Department of Health (NYSDOH)
Generic Community Air Monitoring Plan (CAMP)

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., offsite receptors including residences and businesses and onsite workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination offsite through the air.

The generic CAMP presented below will be sufficient to cover many, if not most sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

VOCs must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.
4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.
2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.
3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.